

# LED TV

## quick start guide

### 1. Accessories and Cables

#### Accessories

The following accessories are included with your TV:

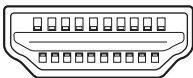
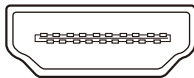

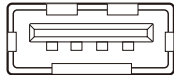


- Remote Control (AA59-00600A) & Batteries (AAA x 2)
- Warranty Card / Safety Guide
- Owner's Guide
- Quick Start Guide
- Wire-Holder Stand (BN61-05491A)
- Power Cord

#### Input Cables (Sold Separately)

You will need one or more of these cables to connect your TV to your antenna or cable outlet and your peripheral devices (Blu-ray players, DVD players, etc.)

- Audio
- HDMI
- HDMI-DVI
- Component
- Composite (AV)
- Coaxial (RF)

 Make sure you have the correct cable before plugging it in. Illustrations of common plugs and jacks are below.

	Cable Plugs	Ports/Jacks
HDMI		
USB		
Optical		



Do not plug a cable in upside down.

Make sure the orientation of the plug is correct before plugging it in.



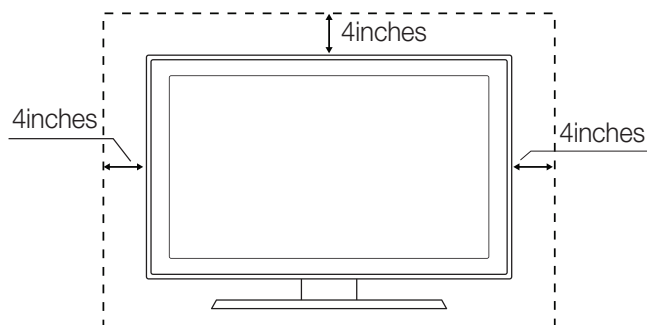
## 2. Getting Started

### **Provide Ventilation for Your TV**

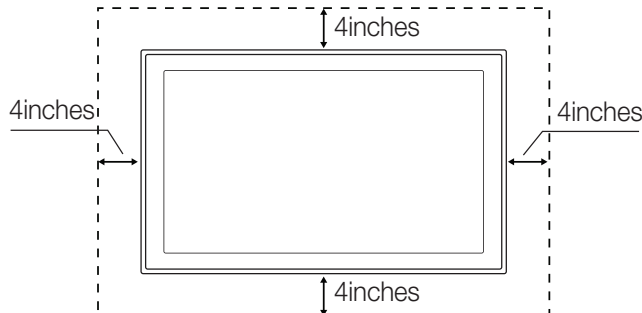
When you install your TV, maintain a distance of at least 4 inches between the TV and other objects (walls, cabinet sides, etc.) to ensure proper ventilation. Failing to maintain proper ventilation may result in a fire or a problem with the product caused by an increase in its internal temperature.

- When using a stand or wall-mount, use parts provided by Samsung Electronics only.
- Using parts provided by another manufacturer may cause difficulties with the product or result in injury caused by the product falling.
- Be careful when you contact the TV because some parts can be somewhat hot.

**Installation with a stand.**

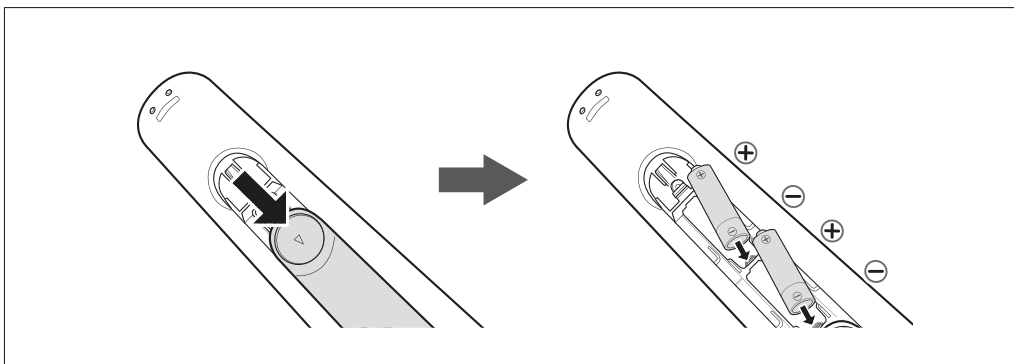


**Installation with a wall-mount.**



### **Installing Batteries into the Remote (Battery size: AAA)**

Match the polarity of the batteries to the symbols in the batter compartment



#### **NOTE**

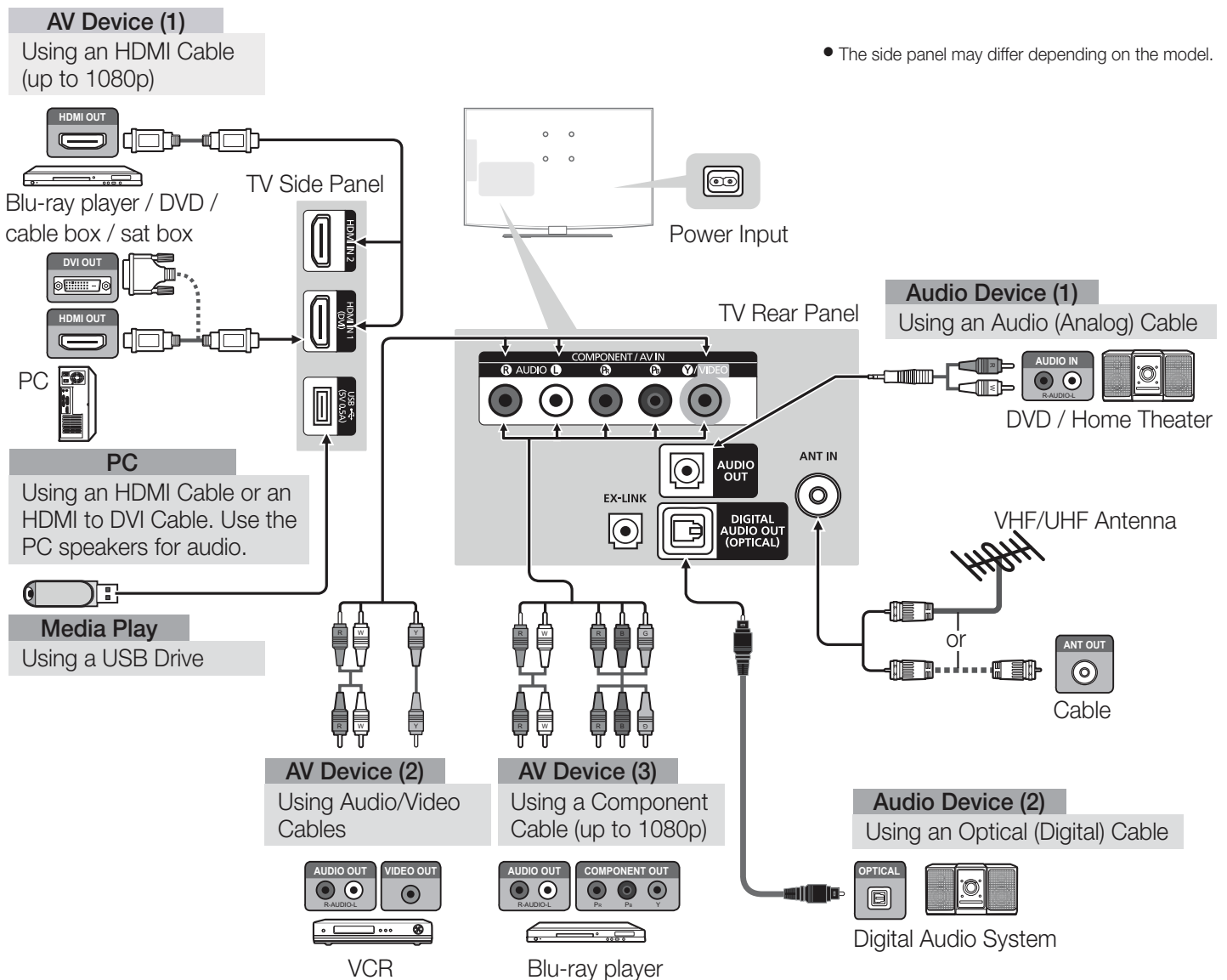
- Use the remote control within 23 feet of the TV.
- Bright light may affect the performance of the remote control. Avoid use when near fluorescent lights or neon signs.
- The color and shape of the remote may vary depending on the model.

### 3. Making Connections

Connect your TV to an antenna or cable connection, and then connect your peripherals. When done, connect the power cord to the TV, and then connect the power cord to an AC wall outlet. If you are connecting your TV to a cable or satellite box using HDMI, Component, or Composite connections, you do not need to connect the ANT IN jack to an antenna or a cable connection.

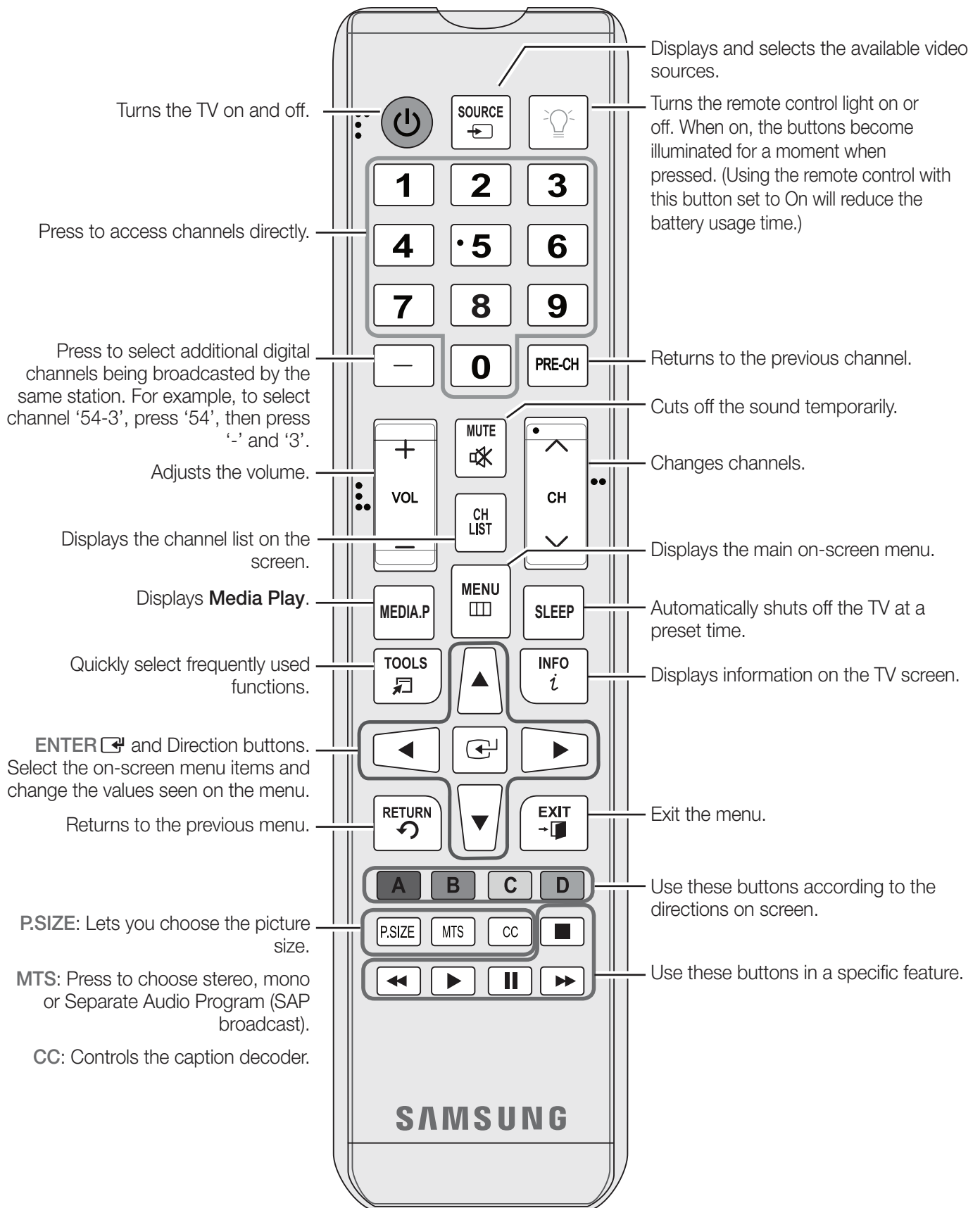
- For the best picture and audio quality, connect digital devices using an HDMI cable.
- If you connect an external device to the TV that uses an older version of HDMI, the video and audio may not work. If this occurs, ask the manufacturer of the device about the HDMI version and, if it is out of date, request an upgrade.
- Be sure to purchase a certified HDMI cable. Otherwise, the picture may not display or a connection error may occur.
- **PC/DVI AUDIO IN** input is not supported.
- For an HDMI to DVI cable connection, you must use the **HDMI IN 1 (DVI)** jack.
- For PCs with DVI video out jacks, use an HDMI to DVI cable to connect the DVI out on the PC to the HDMI IN 1 jack on the TV. Use the PC's speakers for audio.
- **EX-LINK**: Connector for service only.

• The side panel may differ depending on the model.



## 4. The Remote Control

Learn where the function buttons are on your remote. Especially note POWER, SOURCE, VOL, CH, MENU, TOOLS, ENTER, CH LIST, RETURN and EXIT.



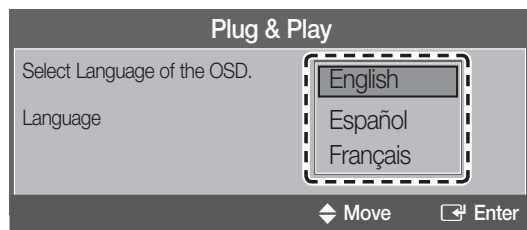
This remote control has Braille points on the Power, Channel, and Volume buttons and can be used by visually impaired persons.


## 5. Configuring the Basic Settings with Plug & Play



When you turn the TV on for the first time, a sequence of prompts and screens will assist you in configuring basic settings. Before you begin, make sure you have connected the TV to an antenna or a cable connection and that the TV is plugged in. See "Connections" for instructions. To begin Plug and Play, press the **POWER** button on your remote.

 **Plug & Play** is available only when the Input source is set to TV. See "Changing the Input Source".

### 1. Start Screen → Select a Language



After you press the **POWER** button, the Start Screen appears. Press the **ENTER**  button on your remote to continue.


On the Language screen, press the **ENTER**  button. Use the **▲/▼** buttons to select a language, and then press **ENTER**  again.



### 2. Select the Home Use Mode

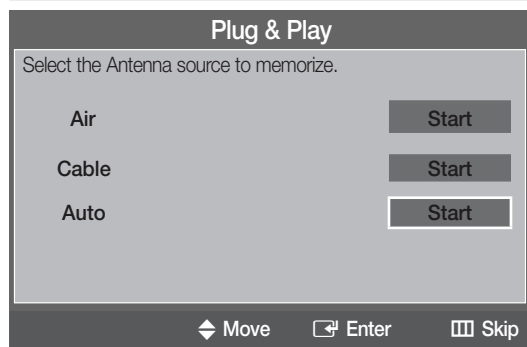


On the Home Use screen, press **ENTER**  to select the **Home Use** mode.

 **Store Demo** mode is for retail environments only.




### 3. Select the Antenna Source




On the Antenna Source screen, select the source of your TV signal.


#### Air



If your TV is connected to an antenna Choose **Air**, and then press **ENTER** . The TV will automatically start memorizing channels. When it is done, go to "Set the Clock Mode".

#### Cable

If your TV is connected to a cable outlet, choose **Cable**, and then press **ENTER** . Go to "Select the Cable Type".

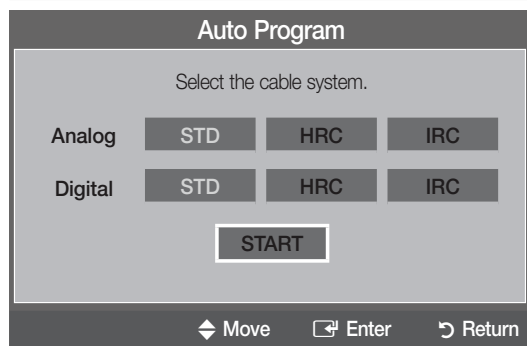
#### Auto


If you choose **Auto**, and then press **ENTER**  , the TV will automatically select the correct Antenna source. Go to "Select the Cable Type"


 If you have connected a cable or satellite box to an HDMI, Component, Composite, or Antenna input, and you will use the box to select channels, press the Menu () button on your remote to skip this step.




### 4. Select the Cable Type



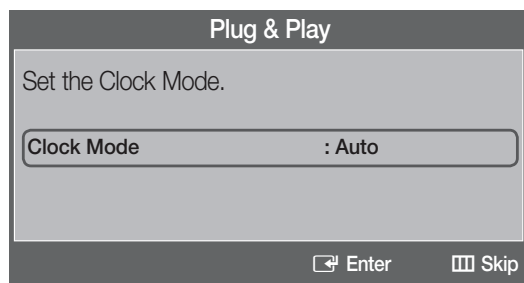
On the Cable Type screen, use the **◀/▶/▲/▼** buttons to select the type of digital and analog cable systems you have: **STD**, **HRC**, or **IRC**. Most systems are **STD** (Standard). When done, select **Start**, and then press **ENTER** . The TV will start memorizing channels.

 Channel memorization can take up to 45 minutes, depending on your cable system.

 Memorized channels are added to the Added Channel list. These are the channels you will see when you use the Channel buttons on your remote.



## 5. Set the Clock Mode



Press **ENTER** and select **Auto** or **Manual**, and then press **ENTER** again.

### If you selected Auto:

The TV will automatically download the correct time from a digital channel.

The DST (Daylight Savings Time) screen will appear. Press **ENTER** . Select **On** if you want to turn the DST adjustment on and off manually. Select **Off** to turn off the DST adjustment. Select **Auto** if you want the TV to adjust to DST automatically. Press **ENTER** when done.

The Time Zone screen will appear. Use the **▲/▼** button to select your Time Zone, and then press **ENTER** .

### If you selected Manual:

The Clock Set screen appears. Use the **▲/▼** buttons to change the values in each field or use the number buttons to enter the values directly. Use the **◀/▶** buttons to move from field to field. When done with all the fields, press **ENTER** .



## 6. View the HD Connection Guide

See the best way to connect a cable or satellite box for the highest quality HD pictures. Press the **ENTER** button to close the guide.



## 7. Enjoy your TV.

Press the **ENTER** button.

- To set or unset **Store Demo** mode outside of Plug & Play, press and release the Controller when the power is on. The Function menu screen appears. Push the Controller to the left (to **MENU** (III)) and hold for more than 5 seconds. The **Store Demo** mode is set. To cancel **Store Demo**, bring up the Function menu using the Controller, push the Controller to the right (to **Source** (→)) and hold for more than 5 seconds.

## 6. Changing the Input Source

### Source List

When you are watching TV and you want to watch a movie on your DVD player or Blu-ray player or switch to your cable box or STB satellite receiver, you need to change the Source.

1. Press the **SOURCE** button on your remote.
2. Use the **▲/▼** buttons to select an external input source.

### ■ TV / AV / Component / HDMI1/DVI / HDMI2

- You can only choose external devices that are connected to the TV. In the **Source List**, connected inputs are highlighted.

### How to Use Edit Name

Edit Name lets you associate a device name to an input source. To access **Edit Name**, press the **TOOLS** button when the **Source List** is displayed. The following selections appear under **Edit Name**:

### ■ VCR / DVD / Cable STB / Satellite STB / PVR STB / AV Receiver / Game / Camcorder / PC / DVI PC / DVI / TV / IPTV / Blu-ray / HD DVD / DMA: Select the name of the device connected to specific input jacks to make your input source selection easier.

- If you connect a PC to the **HDMI IN 1 (DVI)** port with an HDMI cable, assign **PC** to HDMI 1 in **Edit Name**.
- If you connect a PC to the **HDMI IN 1 (DVI)** port with an HDMI to DVI cable, assign **DVI PC** to HDMI 1 in **Edit Name**.
- If you connect an AV device to the **HDMI IN 1 (DVI)** port with an HDMI to DVI cable, assign **DVI** to HDMI 1 in **Edit Name**.

## 7. Accessing and Using the Main Menu

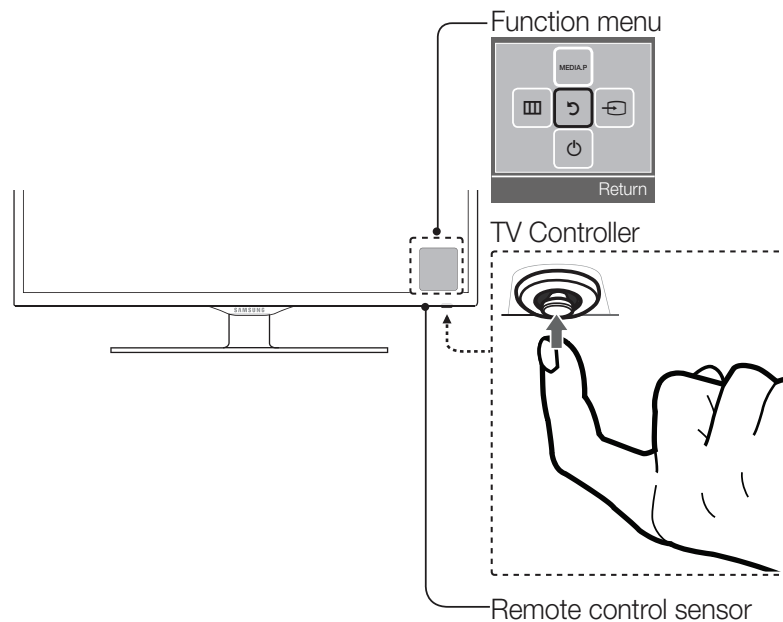
Your TV's Main menu contains functions that let you control many of the TV's features. For example, in the Main menu you can change the size and configuration of the picture, its brightness, its contrast and so on. There are also functions that let you control the TV's sound, channel configuration, energy use, and a host of other features. To access the main, on-screen menu, press the **MENU** (▢) button on your remote.

To use the Main menu, press the **▲/▼** buttons to move between the main option categories: Picture, Sound, Channel, etc. Each time you press a **▲/▼** button, the main category name on the left side of the menu changes.

To select a menu option in one of the categories, press the **▶** button or the **ENTER** (↵) button. Press it again or press **ENTER** (↵) to see the values or choices associated with that option. Usually, you would then press **ENTER** (↵) to select a value or choice. Press the **RETURN** button or the **◀** button to return to a previous screen or selection.

## 8. Using the TV's Controller (Panel Key)

The TV's Controller, a small joy stick like button on the bottom right side of the TV, lets you control the TV without the remote control.



<b>Power on</b>	Turn the TV on by pressing the Controller when the TV is in standby mode.
<b>Adjusting the volume</b>	Adjust the volume by moving the Controller from side to side when the power is on.
<b>Selecting a channel</b>	Select a channel by moving the Controller backwards and forwards when the power is on.
<b>Using the Function menu</b>	To view and use the Function menu, press and release the Controller when the power is on. To close the Function menu, press and release the Controller again.
<b>Selecting Media Play</b>	With the Function menu visible, select <b>MEDIA.P</b> by moving the Controller backwards. The <b>Media Play</b> main screen appears. Select a media source by moving the Controller back and forth, and then pressing the Controller.
<b>Selecting the MENU (▢)</b>	With the Function menu visible, select the <b>MENU</b> (▢) by moving the Controller to the left. The OSD (On Screen Display) Menu appears. Select an option by moving the Controller to the right. Move the Controller to the right or left, or backwards and forwards to make additional selections. To change a parameter, select it, and then press the Controller.

### Selecting a Source (⏮)

With the Function menu visible, open the **Source List** (⏮) by pushing the Controller to the right. The **Source List** screen appears. To select a source, move the Controller back and forth. When the source you want is highlighted, press the Controller.

### Power Off (⏻)

With the Function menu visible, select **Power Off** (⏻) by pulling the Controller forwards, and then press the Controller.

- ✎ To close the Menu, Media Play List, or Source List, press the Controller for more than 1 second.
- ✎ When selecting the function by moving the controller to the up/down/left/right directions, be sure not to press the controller. If you press it first, you cannot operate it to move the up/down/left/right directions.

## 9. Important Safety Information



**Caution:** Pulling, pushing, or climbing onto the TV may cause the TV to fall. In particular, ensure that your children do not hang over or destabilize the TV. Doing so may cause the TV to tip over, resulting in serious injuries or death. Follow all safety precautions provided on the included Safety Flyer.

## 10. Questions? Comments?

### Contact SAMSUNG WORLDWIDE

If you have any questions or comments about your Samsung TV, please contact the SAMSUNG customer care center.


Country	CANADA	U.S.A
Address	Samsung Electronics Canada Inc., Customer Service 55 Standish Court Mississauga Ontario L5R 4B2 Canada	Samsung Electronics America, Inc. 85 Challenger Road Ridgefield Park, NJ 07660-2112
Customer Care Center ☎	1-800-SAMSUNG (726-7864)	
Web Site	www.samsung.com	



LED TV  
user manual

Figures and illustrations in this User Manual are provided for reference only and may differ from actual product appearance. Product design and specifications may be changed without notice.

## Important Warranty Information Regarding Television Format Viewing

 See the warranty card for more information on warranty terms.

Wide screen format LED Displays (16:9, the aspect ratio of the screen width to height) are primarily designed to view wide screen format full-motion video. The images displayed on them should primarily be in the wide screen 16:9 ratio format, or expanded to fill the screen if your model offers this feature and the images are constantly moving. Displaying stationary graphics and images on screen, such as the dark sidebars on non-expanded standard format television video and programming, should be limited to no more than 5% of the total television viewing per week. Additionally, viewing other stationary images and text such as stock market reports, video game displays, station logos, web sites or computer graphics and patterns, should be limited as described above for all televisions. Displaying stationary images that exceed the above guidelines can cause uneven aging of LED Displays that leave subtle, but permanent burned-in ghost images in the LED picture. To avoid this, vary the programming and images, and primarily display full screen moving images, not stationary patterns or dark bars. On LED models that offer picture sizing features, use these controls to view different formats as a full screen picture. Be careful in the selection and duration of television formats you use for viewing. Uneven LED aging as a result of format selection and use, as well as burned-in images, are not covered by your Samsung limited warranty.

### • SAMSUNG ELECTRONICS NORTH AMERICAN LIMITED WARRANTY STATEMENT

Subject to the requirements, conditions, exclusions and limitations of the original Limited Warranty supplied with Samsung Electronics (SAMSUNG) products, and the requirements, conditions, exclusions and limitations contained herein, SAMSUNG will additionally provide Warranty Repair Service in the United States on SAMSUNG products purchased in Canada, and in Canada on SAMSUNG products purchased in the United States, for the warranty period originally specified, and to the Original Purchaser only.

The above described warranty repairs must be performed by a SAMSUNG Authorized Service Center. Along with this Statement, the Original Limited Warranty Statement and a dated Bill of Sale as Proof of Purchase must be presented to the Service Center.

Transportation to and from the Service Center is the responsibility of the purchaser. Conditions covered are limited only to manufacturing defects in material or workmanship, and only those encountered in normal use of the product. Excluded, but not limited to, are any originally specified provisions for, in-home or on-site services, minimum or maximum repair times, exchanges or replacements, accessories, options, upgrades, or consumables.

For the location of a SAMSUNG Authorized Service Center, please call toll-free:

- In the United States : 1-800-SAMSUNG (1-800-726-7864)
- In Canada : 1-800-SAMSUNG

## Still image warning

Avoid displaying still images (such as jpeg picture files) or still image elements (such as TV channel logos, TV shows or movies in panorama or 4:3 format, stock or news scroll bars, etc.) on the screen. The constant display of still pictures can cause ghosting or image burn-in (image retention) on the LED screen, which will affect image quality. To reduce the risk of this effect, please follow the recommendations below:

- Avoid displaying the same TV channel for long periods.
- Always try to display any image in full screen mode. Use the TV's Picture Options menu to select the optimal screen size.
- Reduce brightness and contrast values to the minimum required to achieve the desired picture quality. Values that exceed the minimum may speed up the burn-in process.
- Frequently use all TV features designed to reduce image retention and screen burn-in. Refer to proper user manual section for details.


### Contact SAMSUNG WORLDWIDE

If you have any questions or comments relating to Samsung products, please contact the SAMSUNG customer care center.

Country	CANADA	U.S.A.
Address	Samsung Electronics Canada Inc., Customer Service 55 Standish Court Mississauga, Ontario L5R 4B2 Canada	Samsung Electronics America, Inc. 85 Challenger Road Ridgefield Park, NJ 07660-2112
Customer Care Center ☎	1-800-SAMSUNG(726-7864)	
Web Site	www.samsung.com	




## The On Screen Menus


Your TV has two kinds of menus, the Main menu and the various Tools menus. The Main menu gives you access to most or all of the menu options available on your TV. The Tools menus display a selected number of frequently used menu options that change depending on the screen you are viewing. A Tools menu symbol (  ) in the lower right side of the screen indicates that a Tools menu is available.

The Main menu has seven primary categories:

- Picture
- Sound
- Channel
- Setup
- Input
- Application
- Support

To view the Main menu, press the **MENU** button on your remote. To view a Tools menu, press the **TOOLS** button on your remote.


 The menu options that appear in the Main menu depend on the Source you have selected. For example, if you have selected the HDMI source, the Channel category will not appear. To see the Channel category, you must first select TV in the Source List.


The Menu options are presented below, arranged by Main menu categories. A Tools button symbol (  ) next to an option name indicates the option is also available in one of the Tools menus.

## Picture Menu

### Mode


Select your preferred picture mode.

 When your TV is connected to a PC, you can only select **Entertain** and **Standard**.

- **Dynamic**: Brightens the screen. Suitable for a bright room.
- **Standard**: Suitable for a normal.
- **Movie**: Darkens the screen, making it less glary. Suitable for watching movies in a darkened room.
- **Entertain**: Sharpens the picture. Suitable for games.
  -  Only available when the **TV** is connected to a **PC**.

### Backlight / Contrast / Brightness / Sharpness / Color / Tint (G/R)


- **Backlight**: Adjusts the brightness of the screen by adjusting the brightness of the individual pixels.
- **Contrast**: Increases or decreases the contrast between dark and light areas of the picture.
- **Brightness**: Adjusts the brightness of the screen. Not as effective as Backlight.
- **Sharpness**: Sharpens or dulls the edges of objects.
- **Color**: Adjusts the color saturation. The higher the Color setting, the more intense the color. Low settings remove color and the picture becomes black, white and gray.
- **Tint**: Adjusts the amount of green and red in the picture. As you increase the amount of green, the amount of red decreases and vice versa.

 When the TV is connected to a PC, you can only make changes to **Backlight**, **Contrast**, **Brightness**, and **Sharpness**.

## Advanced Settings

Available in **Standard** and **Movie** mode only.

Compared to previous models, new Samsung TVs offer a more precise picture with more precise controls.

 When your TV is connected to a PC, you can only make changes to **Gamma** and **White Balance**.

■ **Color Space (Auto / Native)**: Auto automatically matches the range of colors available to create pictures to the color range of the video source. Native provides a color range wider than the color range of the video source.

■ **White Balance**: Adjusts the color temperature of the picture so that white objects look white (instead of, for example, slightly pink or slightly yellow) and the overall color of the picture looks natural.

**R-Offset / G-Offset / B-Offset**: Adjusts each color's (red, green, blue) darkness.

**R-Gain / G-Gain / B-Gain**: Adjusts each color's (red, green, blue) brightness.

**Reset**: Resets the **White Balance** to it's default settings.

■ **Gamma**: Adjusts the primary color intensity.

■ **Dynamic Contrast (Off / Low / Medium / High)**: Adjusts the screen contrast.


■ **Black Tone (Off / Dark / Darker / Darkest)**: Selects the black level to adjust the screen depth. Darker settings make blacks look darker.

■ **Flesh Tone**: Adjusts the amount of red in skin tones.


■ **Motion Lighting (Off / On)**: When on, the TV automatically adjusts the brightness of the screen in response to the brightness of the room. In bright light, the screen brightens. In dim light, the screen dims.

 Available in **Standard** mode only.

## Picture Options

 When the TV is connected to a PC, you can only make changes to the **Color Tone**, **Size** and **HDMI Black Level**.

■ **Color Tone (Cool / Standard / Warm1 / Warm2)**: Cool makes the picture bluer (cooler). Warm 1 and Warm 2 make the picture redder (warmer).

 **Warm1** and **Warm2** are deactivated when the picture mode is set to **Dynamic**.

■ **Size**: Set the size and aspect ratio of the picture on the screen. Your cable box or satellite receiver may have its own set of screen sizes as well. However, we highly recommend you use the TVs 16:9 mode most of the time.


**16:9**: Sets the picture to the 16:9 wide screen format.

**Zoom1**: Provides moderate magnification of the picture. Sides, top, and bottom are cut off.


**Zoom2**: Provides larger magnification of the picture. Sides, top, and bottom are cut off.


**Wide Fit**: Enlarges the aspect ratio of the picture so the picture fits the entire screen.

**4:3**: Sets the picture to the old, 4:3 format and puts black or gray borders on the right and left of the picture.

 Do not watch your TV in the 4:3 format for a long time. Traces of borders displayed on the left, right and center of the screen may cause image retention (screen burn) which is not covered by the warranty.

**Screen Fit**: Displays the full image without any cut-off when your TV is inputting HDMI (720p / 1080i / 1080p) or Component (1080i / 1080p) HD signals.

 HD (High Definition) has a 16:9 aspect ratio and 1080i/1080p (1920x1080) or 720p (1280x720) resolution.

 You can adjust and store settings for each external device you have connected to an input on the TV. Picture Sizes available by Input Source are listed below:

Input Source	Picture Size
ATV, AV, Component (480i, 480p)	<b>16:9, Zoom1, Zoom2, 4:3</b>
DTV (1080i, 1080p), Component (1080i, 1080p), HDMI (720p, 1080i, 1080p)	<b>16:9, Wide Fit, 4:3, Screen Fit</b>

■ **Digital Noise Filter (Off / Low / Medium / High / Auto)** : If the broadcast signal received by your TV is weak, you can activate the **Digital Noise Filter** feature to reduce any static and ghosting that may appear on the screen.

🔧 When the signal is weak, try all the Digital Noise Filter options until the TV displays the best picture.

■ **HDMI Black Level (Normal / Low)** : For HDMI signals, select the black level to adjust the screen depth. Low make blacks look darker.

🔧 Available only in **HDMI** mode (RGB signals).

■ **Film Mode (Off / Auto)** : Sets the TV to automatically sense and process film signals from all sources and adjusts the picture for optimum quality.

🔧 Available in ATV, DTV (interlace), AV, COMPONENT (480i / 1080i) and HDMI (480i / 1080i).

■ **Auto Motion Plus (Off / Clear / Standard / Smooth / Custom / Demo)**: Enhances motion in fast moving scenes.

🔧 The info screen on your TV displays the resolution and frequency of the incoming video signal (60Hz). This displayed frequency is not what the TV is displaying by using the **Auto Motion Plus** function.

■ **LED Motion Plus (Off / On)**: Removes drag from fast scenes with a lot of movement to provide a clear picture.

## Picture Reset

■ **Picture Reset (Reset Picture Mode/Cancel)**: Resets the picture settings to their factory defaults.

## Sound Menu

### Mode

■ **Standard**: Selects the normal sound mode.

■ **Music**: Emphasizes music over voices.

■ **Movie**: Provides the best sound for movies.

■ **Clear Voice**: Emphasizes voices over other sounds.

■ **Amplify**: Increase the intensity of high-frequency sounds to allow a better listening experience for the hearing impaired.

### Equalizer

Available in Standard sound mode only.

■ **Balance L/R**: Adjusts the balance between the right and left speaker.

■ **100Hz / 300Hz / 1KHz / 3KHz / 10KHz** (Bandwidth Adjustment): Adjusts the loudness of specific bandwidth frequencies.

■ **Reset**: Resets the equalizer to its default settings.

### SRS TruSurround HD

Available in Standard sound mode only.

SRS TruSurround HD is a patented SRS technology that solves the problem of playing 5.1 multichannel content through two speakers. TruSurround delivers a compelling, virtual surround sound experience through any two-speaker playback system, including internal television speakers. It is fully compatible with all multichannel formats.

## Preferred Language

Digital channels only.

Digital-TV broadcasts can transmit many audio tracks simultaneously (for example, simultaneous translations of a program into foreign languages).

🔧 You can only select a language from among the ones being broadcast.

## Multi-Track Sound (MTS)

Analog channels only.

■ **Mono**: Select for channels that are broadcasting in mono or if you are having difficulty receiving a stereo signal.

■ **Stereo**: Select for channels that are broadcasting in stereo.

■ **SAP**: Select to listen to the Separate Audio Program, which is usually a foreign-language translation.

🔧 Depending on the program being broadcast, you can listen to **Mono**, **Stereo** or **SAP**.

## Auto Volume


Because each station has its own broadcasting conditions, the volume may fluctuate each time you change the channel. This feature automatically adjusts the volume of a channel by lowering the sound output when the modulation signal is high or by raising the sound output when the modulation signal is low.

## SPDIF Output

The SPDIF (Sony Philips Digital InterFace) outputs an uncompressed digital audio signal when you connect the digital audio jack on the back of the TV to a digital audio in jack on a receiver or home theater.

■ **Audio Format (PCM/Dolby Digital)**: You can select the Digital Audio output (SPDIF) format. The available Digital Audio output format may differ depending on the input source.

🔧 By connecting the TV to a receiver or home theater with **Dolby Digital** and 5.1ch speakers and selecting **Dolby Digital**, you can maximize your interactive 3D sound experience.

■ **Audio Delay**: Lets you correct timing mismatches between the audio track and the video when you are watching the TV and listening to digital audio output from the TV through an external device such as an AV receiver. When you select **Audio Delay**, a slider appears. Use the left and right arrow buttons to adjust the slider. Press **ENTER**  when done (0ms ~ 250ms).

## Speaker Settings

■ **Speaker Select (External Speaker / TV Speaker)**

If you are listening to the sound track of a broadcast or movie through an external receiver, you may hear a sound echo caused by the difference in decoding speed between the TV's speakers and the speakers attached to your audio receiver. If this occurs, set the TV to **External Speaker**.

🔧 When you set **Speaker Select** to **External Speaker**, the TV's speakers are turned off. You will hear sound through the external speakers only. When you set **Speaker Select** to **TV Speaker** both the TV's speakers and the external speakers are on. You will hear sound through both.

🔧 When **Speaker Select** is set to **External Speaker**, the **VOLUME** and **MUTE** buttons will not operate and the sound settings will be limited.

🔧 If there is no video signal, both the TV's speakers and the external speakers will be mute.

## Sound Reset

■ **Reset All**: Resets all sound settings to the factory defaults.

## Memorizing Channels

When you first set up your TV using **Plug & Play**, the TV memorized the channels that were available over the air or through your cable system and added them to the **Channel List**. The **Antenna** and **Auto program** functions described below let you re-run the channel memorization function without having to re-run the **Plug & Play** procedure.

### Antenna (Air / Cable)

Before your television can memorize the available channels, you must select your TV's signal source, **Air** (using an antenna) or **Cable**. Select Menu > **Channel** > **Antenna** > **Air** or **Cable**. After you have selected the signal source, go on to the Auto Program function.

- Selecting the signal source using the **Antenna** function also determines the signal source the TV is tuned to. For example, if you receive your TV signal over the air, and you select **Cable**, you will see only snow. You must select Air to see a picture.

### Auto Program

The **Auto Program** function memorizes all channels that are available over the air or through your cable system and adds them to the **Channel List**.

To start **Auto Program**, follow these steps:

- Push **MENU** → **Channel** → **Auto Program** → **ENTER** on your remote. The Antenna Source screen appears.
- On the Antenna Source screen, select the source of your TV signal.

#### Air

If your TV is connected to an antenna choose **Air**, and then press **ENTER**. The TV will automatically start memorizing channels.

#### Cable

If your TV is connected to a cable outlet, choose **Cable**, and then press **ENTER**. Go to Step 3.

#### Auto

If you choose **Auto**, and then press **ENTER**, the TV will automatically select the correct Antenna source. Go to Step 3.

- On the Cable Type screen, use the **◀/▶/▲/▼** buttons to select the type of digital and analog cable systems you have: **STD**, **HRC**, or **IRC**. Most systems are **STD** (Standard). When done, select **Start**, and then press **ENTER**. The TV will start memorizing channels.

- Channel memorization can take up to 45 minutes, depending on your cable system.
- Memorized channels are added to the **Added Channels** list. These are the channels you will see when you use the Channel buttons on your remote.

### Clear Scrambled Channel

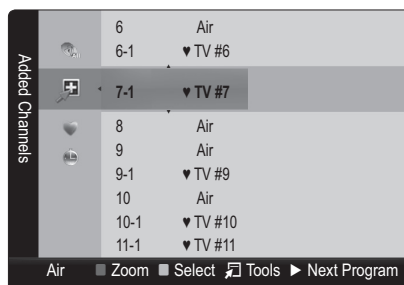
This function filters out scrambled channels after **Auto Program** is completed. This process may take up to 20~30 minutes.

- Press the **ENTER** button to stop the **Clear Scrambled Channel**.
- This function is only available in **Cable** mode.

## Managing Channels

### Channel List

See your list of Added channels, Favorite channels, or channels you've scheduled for viewing. Add or delete Favorite channels, add or delete channels from the Added Channels list, schedule channels or programs for viewing. Watch a channel by selecting the channel in the **All Channels**, **Added Channels**, or **Favorite** screen, pressing the **▲ / ▼** buttons, and then pressing the **ENTER** button.



**Channel List Screens icons are listed on the left side. Select an icon using the **▲/▼** buttons to view each list.**

- All Channels:** Shows all currently available channels including those you deleted from the **Added Channels** list.
- Added Channels:** Shows all **Added Channels**. These are the channels that appear when you press the CH button.
- Favorite:** Shows all favorite channels.
- Programmed:** Shows all channels and programs currently scheduled using **Timer Viewing**.

Remote control buttons active on the **Channel List** screen.

- Green (Zoom):** Enlarges or shrinks a channel number.
- Yellow (Select):** Move the cursor to a channel. Press the Yellow button to select the channel. A **✓** mark appears. Repeat to select additional channels. Then, open the Tools menu and apply a function to the channels you selected.
- (Tools):** Displays the **Channel List Tools** menu. (The Tools menus may differ depending on the situation.)

### Display Icons Used in the Channel List Screens

Icons	Meaning
✓	A selected channel.
♥	A Favorite channel.
⌚	A reserved program.
📺	A program currently being broadcast.

## The Channel List Tools Menu **TOOLS**

The Channel List Tools menu contains most of the functions you can use on the **All Channel**, **Added Channels**, and **Favorite** List screens. To view, select a list screen, select a channel, and then press the **TOOLS** button.

- Add / Delete:** Delete a channel from or add a channel to the **Added Channels** list.

To delete channels from the **Added Channels** list, follow these steps:

- Select one or more channels in the **Added Channels** list using the **▲/▼** buttons and the Yellow Select button on your remote.
- Press the **TOOLS** button on your remote. The Tools menu appears.
- Select **Delete** in the Tools menu, and then press the **ENTER** button.



To add channels to the **Added Channels** list, follow these steps:

1. Select one or more channels in the **All Channels** list using the ▲/▼ buttons and the Yellow Select button on your remote.
  2. Press the **TOOLS** button on your remote. The Tools menu appears.
  3. Select **Add** in the Tools menu, and then press the **ENTER** button.
- All deleted channels will be shown on the **All Channels** list. You add channels back to the **Added Channels** list on the **All Channels** list.
  - A gray-colored channel indicates the channel has been deleted from the **Added Channels** list.
  - The **Add** menu option only appears for deleted channels.

■ **Add to Favorite/Delete from Favorite:** Lets you add channels to and delete channels from your **Favorites** list.

To add channels to the **Favorites** list, follow these steps:

1. Select one or more channels in the **All Channels** list using the ▲/▼ buttons and the Yellow Select button on your remote.
2. Press the **TOOLS** button on your remote. The Tools menu appears.
3. Select **Add to Favorite** in the Tools menu, and then press the **ENTER** button.

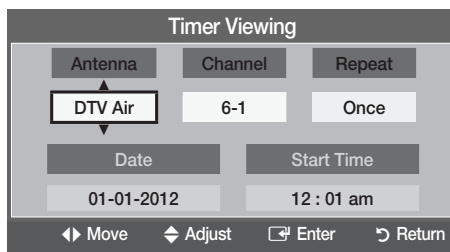
To delete channels from the **Favorites** list, follow these steps:

1. Select one or more channels in the **Favorites** Channels list using the ▲/▼ buttons and the Yellow Select button on your remote.
2. Press the **TOOLS** button on your remote. The Tools menu appears.
3. Select **Delete from Favorite** in the Tools menu, and then press the **ENTER** button.

■ **Timer Viewing:** You can schedule a channel to be displayed automatically at a set time, even when you are watching another channel. You must set the current time first in the **Time > Clock** function to use **Time Viewing**.

To schedule a channel, follow these steps:

1. Select a channel in the **Added Channels** list using the ▲/▼ buttons and the Yellow Select button on your remote.
2. Press the **TOOLS** button on your remote. The Tools menu appears.
3. Select **Time Viewing** in the Tools menu, and then press the **ENTER** button. The Time Viewing screen appears.



4. Use the ◀/▶ buttons to move from entry field to entry field and the ▲/▼ buttons to change the entries. Where numbers are displayed, you can also enter numbers directly using the number keypad on your remote.

• If you select **Everyday** or **Every Week**, the date you select in the Date field becomes the start date for your scheduled viewing. For **Everyday**, the TV will turn on every day, at the time you selected, starting from that date. For **Everyweek**, the TV will turn on every week, on the same day of the week as the start date you selected, at the time you selected, from that day on. If you select **Once**, the TV will turn on once, on the date and time you selected.

5. Press the **ENTER** button on your remote when done.

- Only **Added Channels** can be scheduled.
- Scheduled programs and channels are displayed in the **Programmed List**.
- When you select a digital channel, press the ► button to view the digital program list. If you highlight a program in the list, and then press the **ENTER**(Schedule) button, you set **Timer Viewing** for that program directly.

■ **Select All:** Select all the channels in the displayed channel list.

■ **Deselect All:** Deselect all the selected displayed channels.

- You can only select **Deselect All** when one or more channels are selected.

■ **Channel Name Edit:** Analog channels only. Lets you assign a name of up to five characters to an analog channel. For example, Hist, Food, Golf, etc. This makes it easier to find and select a channel.

■ **Auto Program:** See **Auto Program** under Memorizing Channels.

## ⌚ **Programmed List (on the Channel List Screen)**

The **Programmed** list displays the channels and programs you have scheduled for viewing using the **Time Viewing** function. You can view, modify, or delete a show you have scheduled using the functions on the **Programmed** List screen Tools menu.

### **Programmed List Screen Tools Menu** **TOOLS**

■ **Change Info:** Change the scheduling information for a show or channel you have scheduled.

To change the information, follow these steps:

1. Select the **Programmed** List icon on the left side of the **Channel List** screen, and then press the **ENTER** button.
2. On the **Programmed** List screen, select the show or channel entry you want to change, and then press the **TOOLS** button. The Tools Menu appears.
3. Select **Change Info**, and then press the **ENTER** button. The **Time Viewing** screen appears.
4. Use the ◀/▶ buttons to move from entry field to entry field and the ▲/▼ buttons to change the entries. Where numbers are displayed, you can also enter numbers directly using the number keypad on your remote.
5. Press the **ENTER** button when done.

■ **Cancel Schedules:** Cancel a show or channel you have scheduled.

To cancel a scheduled show or channel, follow these steps:

1. Select the **Programmed** List icon on the left side of the **Channel List** screen, and then press the **ENTER** button.
2. On the **Programmed** List screen, select the show or channel entry you want to cancel, and then press the **TOOLS** button. The Tools Menu appears.
3. Select **Cancel Schedules**, and then press the **ENTER** button. The **Cancel Schedule** screen appears.
4. Select **OK**, and then press the **ENTER** button.

■ **Information:** Display the information for a show or channel you have scheduled. You can also change the schedule information.

1. Select the **Programmed** List icon on the left side of the **Channel List** screen, and then press the **ENTER** button.
2. On the **Programmed** List screen, select the show or channel entry you want information for, and then press the **TOOLS** button. The Tools Menu appears.
3. Select **Information**, and then press the **ENTER** button. The **Time Viewing** Information screen appears.
4. Select **Change Info** and press the **ENTER** button to change information, or select **Close** and press the **ENTER** button to close the Information screen.

■ **Select All / Deselect All:** You can select or deselect all channels in the channel list.

## □ Other Channel Menu Functions

### Channel Mode (Added Channels/Favorite Channels)

Lets you select the channel list displayed when you press the **▲CH▼** (Channel) button on your remote. For example, if you select Favorite Channels, you will only see Favorite channels when you press the **▲CH▼** button.

### Fine Tune

Analog channels only.

If the reception is clear, you do not have to fine tune the channel, as this is done automatically during the search and store operation. If the signal is weak or distorted, fine tune the channel manually.

- ✎ Select the channel, and then select **Fine Tune**.
- ✎ Fine tuned channels that have been saved are marked with an asterisk "\*" on the right-hand side of the channel number in the channel banner.
- ✎ To reset fine-tuning, select the channel, select **Fine Tune**, and then select **Reset** on the **Fine Tune** screen.

## Setup Menu

### Plug & Play

Lets you re-run the **Plug & Play** initial setup procedure. For instructions, see your Quick Start Guide.

### Language

Set the menu language.

- ✎ Choose between **English**, **Español**, and **Français**.

## □ Setting the Time

### Time

- ✎ The time you set will appear when you press the **INFO** button.
- **Clock:** Set the clock so you can use the various timer features of the TV.
  - ✎ If you disconnect the power cord, you have to set the clock again.

To set the clock, follow these steps:

1. Select **Setup > Time > Clock**.
2. Press **ENTER** and select **Auto** or **Manual**, and then press **ENTER** again.

#### If you selected Auto:

The TV will automatically download the correct time from a digital channel.

- Select **Time Zone**, and then press the **ENTER** button. Use the **▲/▼** buttons to select your **Time Zone**, and then press **ENTER**.
- Select **DST** (Daylight Savings Time), and then press **ENTER**. Select **On** if you want to turn the DST adjustment on and off manually. Select **Off** to turn off the DST adjustment. Select **Auto** if you want the TV to adjust to DST automatically. Press **ENTER** when done.

✎ **DST** and **Time Zone** function are only available when the **Clock Mode** is set to **Auto**.

#### If you selected Manual:

The **Clock Set** screen appears. Use the **▲/▼** buttons to change the values in each field or use the number buttons to enter the values directly. Use the **◀/▶** buttons to move from field to field. When done with all the fields, press **ENTER**.

✎ Available only when **Clock Mode** is set to **Manual**.

### ■ Sleep Timer **TOOLS**

Automatically shuts off the TV after a preset period of time. (30, 60, 90, 120, 150 and 180 minutes).

- ✎ To cancel the **Sleep Timer**, select **Off**.

### Timer 1 / Timer 2 / Timer 3

Turns the TV on and off automatically at times and days you select. You can set three different on/off timer settings.

- ✎ You must set the clock first.

■ **On Time / Off Time:** Set the hour, minute, am/pm, and Activate/Inactivate fields for the **On Time** and **Off Time**. Use the **◀/▶** buttons to move from field to field. Use the **▲/▼** buttons to change the values in each field. To activate the timer with the setting you have chosen, set the Activate/Inactivate field to **Activate**.

■ **Volume:** Set the desired loudness.

■ **Contents:** To select what will be turned on when the timer setting is activated. You can set the TV to turn on a specific channel or play back contents such as photo or audio files. Use the **◀/▶** buttons to move to move to the Contents field, and then press the **ENTER** button. The Contents screen appears. Use the **◀/▶** buttons to move from field to field. Use the **▲/▼** buttons to change the values in each field.

- **TV/USB:** Select **TV** or **USB**. The USB device must be connected to your TV before you can select USB.



- **Antenna:** Displays the current antenna source, **Air** or **Cable**.



- **Channel:** If you have selected TV, select the desired channel.

- **Music/Photo:** If you have selected USB, follow these steps to select a folder containing MP3 (Music) or JPEG (Photo) files on the USB device:

- ✎ The maximum displayed number of files, including sub folders, in one folder of USB storage device is 2000.
- ✎ The media may not be playing smoothly when using the device lower than USB 2.0.

1. Use the **◀/▶** buttons to move to the field under **Music** or the field under **Photo**, and then press the **ENTER** button. The TV displays a single folder (the Root folder) and the type or name of the device.

2. Press the **ENTER**  button. A list of folders on the device appears.
  -  If there are no folders on your device, press the **Yellow** select button to select the Root folder, and then press the **RETURN** button. The Timer screen re-appears.
3. Use the **▲/▼** buttons to highlight a folder that contains music or photos, and then press the **Yellow** select button to select the folder.
4. Press the **RETURN** button. The Timer screen re-appears.


■ **Repeat:** Select **Once**, **Everyday**, **Mon~Fri**, **Mon~Sat**, **Sat~Sun** or **Manual**. If you select **Manual**, you can select the days you want to activate the timer by using the **◀/▶** buttons to highlight the day, and then pressing the **ENTER**  button. To unselect a day, highlight it, and then press the **ENTER**  button.

When you finished making all your selections on the Timer screen, press either the **ENTER**  or **RETURN** button.

## □ Other Features

### Program Rating Lock




The **Program Rating Lock** feature lets you block programs you've determined are inappropriate for your children based on the program's ratings. To access the **Program Rating Lock** feature and make any changes, you must enter a PIN (personal identification number). To watch a blocked program, you must also enter the same PIN.

 **Program Rating Lock** is not available in **HDMI** or **Component** mode.

 The default PIN number of a new TV set is "0-0-0-0". You can set your own PIN using the **Change PIN** function.

### How It Works

When you access the **Program Rating Lock** Menu functions for the first time, the PIN input screen appears. Enter 0-0-0-0. The PIN screen closes and the **Program Rating Lock** Menu appears. Every time you access the **Program Rating Lock** functions, the PIN screen will appear and you must enter a PIN.

When the Rating Lock screen appears, select **Program Rating Lock**, and then press **ENTER** . Select **On**, and then press the **ENTER**  key again. Depending on what type of programs or movies you want to block, select one of the options on the screen, and then press the **ENTER**  button. The options are listed below:


- **TV Parental Guidelines:** You can block TV programs based on their ratings. This function allows you to control what your children are watching.
- **MPAA Rating:** You can block movies based on their MPAA ratings. The Motion Picture Association of America (MPAA) has implemented a rating system that provides parents or guardians with advanced information on which films are appropriate for children.
- **Canadian English:** You can block TV programs based on their Anglophone Canadian ratings.
- **Canadian French:** You can block TV programs based on their French Canadian ratings.
- **Downloadable U.S. Rating:** Parental restriction information can be used while watching DTV channels.

## Locking/Blocking Programs or Movies

You lock or block programs and/or movies in essentially the same way for each option. Each option displays a grid or table. All the tables have ratings listed on the left. The TV Parental Guidelines option also has kinds of content listed across the top: **ALL:** Lock all TV ratings. / **FV:** Fantasy violence / **V:** Violence / **S:** Sexual situation / **L:** Adult Language / **D:** Sexually Suggestive Dialog.

To lock/block movies or shows with certain ratings and/or kinds of content, click the square next to the rating and/or under the kind of content. A lock appears. To unlock/unblock, click the square again. When you click a low rating, all the ratings above it will also display locks. You can also Allow All or Lock All. When done, press the **RETURN** button on your remote.

■ **Change PIN:** The Change PIN screen will appear. Choose any 4 digits for your PIN and enter them in **Enter New PIN** fields. Re-enter the same 4 digits in **Confirm New PIN** fields. When the Change PIN screen disappears, press the **OK** button. The TV has memorized your new PIN.


 If you forget the PIN, press the remote-control buttons in the following sequence, which resets the pin to "0-0-0-0" : **POWER** (off) → **MUTE** → 8 → 2 → 4 → **POWER** (on)


### Game Mode (On/Off)

When you connect a game console such as a PlayStation™ or Xbox™ to your TV, you can enjoy a more realistic gaming experience by turning on the **Game Mode** function.

 Precautions and limitations for game mode:

- Before you disconnect the game console and connect another external device, set **Game Mode** to **Off** in the setup menu.
- If you display the TV menu in **Game Mode**, the screen shakes slightly.


 **Game Mode** is not available when the input source is set to **TV**.

 After connecting the game console, set **Game Mode** to **On**. You may notice slightly reduced picture quality.

### Caption

(On-Screen Text Dialogue)


■ **Caption:** You can switch the caption function on or off. If captions are not available, they will not be displayed on the screen.

 The **Caption** feature does not work in **Component** or **HDMI** mode.

■ **Caption Mode:** You can select the desired caption mode.

**Default / CC1~CC4 / Text1~Text4:** (analog channels only) The Analog Caption function operates in either analog TV channel mode or when a signal is supplied from an external device to the TV. (Depending on the broadcasting signal, the Analog Caption function may or may not work with digital channels.)

**Default / Service1~Service6 / CC1~CC4 / Text1~Text4:** (Digital channels only) The Digital Captions function works with digital channels.

 **Service1~6** may not be available in digital caption mode depending on the broadcast.

■ **Digital Caption Options:** (Digital channels only)

**Size:** Options include Default, Small, Standard and Large. The default is Standard.

**Font Style:** Options include Default and Styles 0 to 7. The default is Style 0.


**Foreground Color:** Options include Default, White, Black, Red, Green, Blue, Yellow, Magenta and Cyan. You can change the color of the letters. The default is White.


**Background Color:** Options include Default, White, Black, Red, Green, Blue, Yellow, Magenta and Cyan. You can change the background color of the captions. The default is Black.

**Foreground Opacity:** This adjusts the opacity of text. Options include Default, Transparent, Translucent, Solid and Flashing.

**Background Opacity:** This adjusts the opacity of the caption background. Options include Default, Transparent, Translucent, Solid and Flashing.

**Return to Default:** This option sets each Size, Font Style, Foreground Color, Background Color, Foreground Opacity and Background Opacity to its default.

 **Digital Caption Options** are available only when you can select **Default** and **Service1 ~ Service6** in **Caption Mode**.

 The Foreground and Background cannot be set to the same color.

## Melody

Lets you control whether a melody plays when the TV is turned on or off.

 The **Melody** does not play:

- When no sound is output from the TV because the **MUTE** button has been pressed.
- When no sound is output from the TV because the volume has been reduced to minimum with the **VOL -** button.
- When the TV is turned off by the **Sleep Timer** function.

## Auto Protection Time

■ **Auto Protection Time (Off / 10 min / 20 min / 40 min / 1 hour):**


If the screen remains idle with a still image for a certain period of time you define, the screen saver is activated to prevent the formation of ghost images on the screen.

## Eco Solution


■ **Energy Saving (Off / Low / Medium / High / Picture Off) :**

This adjust the brightness of the TV in order to reduce power consumption. If you select **Picture Off**, the screen is turned off, but the sound remains on. Press any button except volume button to turn on the screen.

■ **Eco Sensor (Off / On):** To enhance your power savings; the picture settings will automatically adapt to the light in the room.

 If you adjust the **Backlight**, the **Eco Sensor** will be set to **Off**.

**Min. Backlight:** When **Eco Sensor** is **On**, the minimum screen brightness can be adjusted manually.

 If **Eco Sensor** is **On**, the display brightness may change (become slightly darker in most cases) depending on the surrounding light intensity.

■ **No Signal Power Off (Off / 15 min. / 30 min. / 60 min.):** Sets how quickly the TV switches to standby mode, if no picture is being received.

 Disabled when the PC is in power saving mode.

■ **Auto Power Off (Off / On):** The TV will be automatically turned off when no user operation is received for 4 hours.

## Support Menu

### Self Diagnosis


■ **Picture Test:** Use to check for picture problems. If the problem appears in the test picture, select Yes and follow the directions on the screen.

■ **Sound Test:** Use the built-in melody sound to check for sound problems. If the problem occurs during the test, select Yes and follow the directions on the screen.

■ **Signal Strength:** (Digital channels only) An HD channel's reception quality is either perfect or the channels are unavailable. Adjust your antenna to increase signal strength.

■ **Reset:** Reset all settings to the factory defaults.

 The PIN input screen appears before the setup screen.

 Enter your 4-digit PIN. Change the PIN using the **Change PIN** option.

## Software Upgrade

**Software Upgrade** can be performed by downloading the latest firmware from [samsung.com](http://samsung.com) to a USB memory device.

## HD Connection Guide

Refer to this information when connecting external devices to the TV.

## Contact Samsung

View this information when your TV does not work properly or when you want to upgrade the software. You can find information regarding our call centers and how to download products and software.

## Media Play

Enjoy photos, music and/or movie files saved on a USB Mass Storage Class (MSC) device.




### Connecting a USB Device

1. Turn on your TV.
2. Connect a USB device containing photo, music, and/or movie files to the **USB** jack on the back of the TV. A pop up window appears.
3. Press the **MEDIA.P** button on your remote. The Media Play menu appears.

### Using the Media Play Menu



To open Media Play in the Menu, follow these steps:

1. Press the **MENU** button. Then, press the **▲** or **▼** button to select **Application** on the left, and then press the **ENTER** button.
  2. Press the **▲** or **▼** button to select **Media Play (USB)**, and then press the **ENTER** button.
  3. Press the **◀** or **▶** button to select an icon (**Videos**, **Music**, **Photos**, **Settings**), and then press the **ENTER** button.
-  Media Play might not work properly with unlicensed multimedia files.

 Need-to-Know List before using **Media Play (USB)**

- The file system supports FAT16, FAT32 and NTFS.
- Certain types of USB Digital camera and audio devices may not be compatible with this TV.
- **Media Play** only supports USB Mass Storage Class (MSC) devices. MSC is a Mass Storage Class Bulk-Only Transport device. Examples of MSC are Thumb drives and Flash Card Readers. Devices should be connected directly to the TV's USB port. USB HDD is not supported.



- Before connecting your device to the TV, please back up your files to prevent them from damage or loss of data. SAMSUNG is not responsible for any data file damage or data loss.
- A USB device that requires high power (more than 0.5A) may not be supported.
- Do not disconnect the USB device while it is loading.
- The higher the resolution of the image, the longer it takes to display on the screen.
- If a file is corrupted or the TV does not support the file type, the "Not Supported File Format" message appears.
- The TV cannot play MP3 files with DRM that have been downloaded from a for-pay site. Digital Rights Management (DRM) is a technology that supports the creation, distribution, and management of digital content in an integrated and comprehensive way, including protecting the rights and interests of content providers, preventing illegal copying of contents, and managing billing and settlements.
- PTP devices are not supported.
- If an over-power warning message is displayed while you are connecting or using a USB device, the device may not be recognized or may malfunction.
- If the TV has no input during the time period set in **Auto Protection Time**, the Screensaver will run.
- The power-saving mode of some external hard disk drives may be released automatically when you connect them to the TV.
- If you use a USB extension cable, the TV may not recognize the USB device or may not be able to read the files on the device.
- If a USB device connected to the TV is not recognized, the list of files on the device is corrupted, or a file in the list is not played, connect the USB device to a PC, format the device, and check the connection.
- If a file you deleted from the PC is still found when you run **Media Play**, use the "Empty the Recycle Bin" function on the PC to permanently delete the file.
- **Photos** only supports the sequential jpeg format.
- The **Videos** option does not support the scene search and thumbnail functions.
- If the number of files and folders saved on a USB storage device is over approximately 4000, the files and folders may not appear and some folders may not open.
- The maximum displayed number of files, including sub folders, in one folder of USB storage device is 2000.
- The media may not be playing smoothly when using the device lower than USB 2.0.

## Videos



1. In the **Media Play** menu, press the ◀ or ▶ button to select **Videos**, and then press the ENTER button.
2. Press the ◀/▶/▲/▼ buttons to select a video in the file list.
3. Press the ENTER button or (Play) button.
  - The file name is displayed on the top of the screen with the playing time.
  - If video time information is unknown, playing time and the progress bar are not displayed.
  - During video playback, you can search using the ◀ and ▶ buttons.

🔒 In this mode, you can play movie clips contained in a game, but you cannot play the game itself.

## Supported Subtitle Formats

### - External

Name	File extension
MPEG-4 timed text	.txt
SAMI	.smi
SubRip	.srt
SubViewer	.sub
Micro DVD	.sub or .txt
SubStation Alpha	.ssa
Advanced SubStation Alpha	.ass

### - Internal

Name	Container	Format
Xsub	AVI	Picture Format
SubStation Alpha	MKV	Text Format
Advanced SubStation Alpha	MKV	Text Format
SubRip	MKV	Text Format
MPEG-4 Timed text	MP4	Text Format

## Supported Video Formats

File Extension	Container	Video Codec	Resolution	Frame rate(fps)	Bit rate(Mbps)	Audio Codec
*.mp4	MP4	DivX 3.11/4.x/5.1 /6.0	1920x1080	6~30	30Mbps	MP3 / ADPCM / AAC
		H264	1920x1080	6~30	30Mbps	
		AVC	1920x1080	6~30	30Mbps	
		MJPEG	640x480	6~30	10Mbps	
*.avi *.mkv	AVI, MKV	DivX 3.11/4.x/5.1 /6.0	1920x1080	6~30	30Mbps	MP3 / AC3 / LPCM / ADPCM / DTS Core
		MPEG4 SP / ASP	1920x1080	6~30	30Mbps	
		H264	1920x1080	6~30	30Mbps	
		MJPEG	640x480	6~30	10Mbps	
*.asf *.wmv	ASF	DivX 3.11 / 4.x /5.1 / 6.0	1920x1080	6~30	30Mbps	MP3 / AC3 / LPCM / ADPCM / WMA / WMA Pro
		MPEG4 SP / ASP	1920x1080	6~30	30Mbps	
		H.264	1920x1080	6~30	30Mbps	
*.ts *.trp *.tp *.m2ts	TS	MPEG2	1920x1080	6~30	30Mbps	AC3 / AAC / MP3 / DD+ / HE-AAC
		H. 264 BP / MP / HP	1920x1080	6~30	30Mbps	
*.dat *.mpg *.mpeg *.vob	PS	MPEG1	1920x1080	24/25/30	30Mbps	AC3 / MPEG / LPCM / AAC
		MPEG2	1920x1080	24/25/30	30Mbps	
		H. 264 BP / MP / HP	1920x1080	6~30	30Mbps	
*.3gp	3GPP	MPEG4 SP / ASP	1920x1080	6~30	30Mbps	MP3
		H.264	1920x1080	6~30	30Mbps	
*.flv *.swf	flash formats	H.264	1920x1080	6~30	30Mbps	MP3
		Sorenson H.263	1920x1080	6~30	30Mbps	

## Other Restrictions

- Video content will not play, or not play correctly, if there is an error in the content or the container.
- Sound or video may not work if the contents have a standard bit rate/ frame rate above the compatible Frame/sec listed in the Supported Video Formats table.
- If the Index Table erroneous, the Seek (Jump) function is not supported.
- The menu may take longer to appear if the video's bit rate exceeds 10Mbps.
- Video content can not be played if there are many contents in one file.

### Video Decoder

Supports up to H.264, Level 4.1

H.264 FMO / ASO / RS, VC1 SP / MP / AP L4 and AVCHD are not supported.

MPEG4 SP, ASP :

– Below 1280 x 720: 60 frame max

– Above 1280 x 720: 30 frame max

H.263 is not supported.

GMC is not support.

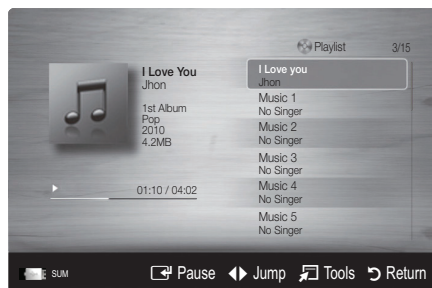
### Audio Decoder

Supports up to WMA7, 8, 9 STD, 9 PRO, 10 PRO

WMA 9 PRO and WMA 10 PRO support 5.1 channel. (LBR mode of WMA Pro is not supported)

WMA Lossless is not supported.

## Music



1. In the **Media Play** menu, press the ◀ or ▶ button to select **Music**, and then press the ENTER button.
2. Press the ◀/▶/▲/▼ buttons to select the desired Music in the file list.
3. Press the ENTER button or ▶ (Play) button.
  - During music playback, you can search using the ◀ and ▶ button.
  - ◀◀ (REW) and ▶▶ (FF) buttons do not function during play.
  - Media Play only displays files with MP3 and PCM file extension. Other file extensions are not displayed, even if they are saved on the same USB device.
  - If the sound is abnormal when playing MP3 files, adjust the **Equalizer** in the **Sound** menu. (An over-modulated MP3 file may cause a sound problem.)

## Photos



1. In the **Media Play** menu, press the ◀ or ▶ button to select **Photos**, then press the ENTER button.
2. Press the ◀/▶/▲/▼ buttons to select a photo in the file list.
3. Press the ENTER button or ▶ (Play) button.

### NOTE

- While a photo list is displayed, press the ▶ (Play) / ENTER button on the remote control to start a slide show.
- All files in the file list section will be displayed in the slide show.
- During the slide show, files are displayed in order.
- During the slide show, you can adjust the slide show speed using (◀◀) (REW) or (▶▶) (FF) button.
- You can move to other files using ◀ or ▶ button.

Media Play can play Music files automatically during a Slide Show if **Background Music** is set to **On**.

You cannot change the **Mode** in **Background Music** until the Background Music file has finished loading.

- Supported Photo Formats

Image	Photo	Resolution
JPEG	Base-line	15360 x 8704
	Progressive	1024 x 768

## Other Restrictions

- CMYK, YCCK Color space JPEG are not supported.

## Playing Multiple Files

### ■ Playing selected video/music/photo files

1. On the File List screen, highlight a file, and then press the Yellow button on your remote.
2. Repeat Step 1 to select multiple files.

### NOTE

- A ✓ mark appears to the left of the selected files.
- To cancel a selection, press the Yellow button again.
- To deselect all selected files, press the **TOOLS** button, select **Deselect All**, and then the ENTER button.

3. Press the **TOOLS** button, select **Play Selected Contents**, and then press the ENTER button.

### ■ Playing a video/music/photo folder

1. With the folders on your USB device displayed, use the ◀/▶/▲/▼ buttons to highlight a folder.
2. Press the **TOOLS** button, select **Play Folder**, and then press the ENTER button.

## Media Play - Additional Functions

### ■ Videos/Music/Photos Play Option menus

When playing a file, press the **TOOLS** button.

Category	Operation	Videos	Music	Photos
<b>Title</b>	You can select another video file to play directly.	✓		
<b>Repeat Mode</b>	You can play movie and music files repeatedly.	✓	✓	
<b>Picture Size</b>	You can adjust the picture size to your preference.	✓		
<b>Picture Mode</b>	You can adjust the picture setting.	✓		✓
<b>Auto Motion Plus</b>	You can enhance motion in fast moving scenes.	✓		
<b>Sound Mode</b>	You can adjust the sound setting.	✓	✓	✓
<b>Subtitle Setting</b>	You can play the video with Subtitles. This function only works if the subtitles have the same file name as the video.	✓		
<b>Audio Format</b>	You can select the digital audio output format.	✓		
<b>Audio Language</b>	You can change the audio language if the video has more than one language.	✓		
<b>Stop Slide Show / Start Slide Show</b>	You can start or stop a Slide Show.			✓
<b>Slide Show Speed</b>	You can select the slide show speed during the slide show.			✓
<b>Background Music</b>	You can set and select background music when watching a Slide Show.			✓
<b>Zoom</b>	You can zoom into images in full screen mode.			✓
<b>Rotate</b>	You can rotate images in full screen mode.			✓
<b>Information</b>	You can see detailed information about the played file.	✓	✓	✓

## Settings

### Using the Setup Menu

■ **DivX® Video On Demand** : Shows the registration code authorized for the TV. If you connect to the DivX web site and register with the 10-digit registration code, you can download the VOD activation file. Once you play it using Media Play, the registration is completed.

✎ For more information on DivX® VOD, visit "http://vod.divx.com".

■ **Information**: Select to view information about the connected USB device.

## Other Information

### Installing the Wall Mount Kit

The wall mount kit (sold separately) allows you to mount the TV on the wall.

For detailed information about installing the wall mount, see the instructions provided with the wall mount items. Contact a technician for assistance when installing the wall mount bracket. Samsung Electronics is not responsible for any damage to the product or injury to yourself or others if you elect to install the wall mount on your own.

### Wall Mount Kit Specifications (VESA)

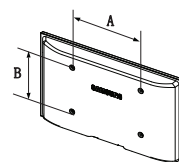
✎ The wall mount kit is not supplied, but sold separately.

Install your wall mount on a solid wall perpendicular to the floor. When attaching to other building materials, please contact your nearest dealer. If you install the TV on a ceiling or slanted wall, it may fall and result in severe personal injury.

## NOTE

- Standard dimensions for wall mount kits are shown in the table below.
- When purchasing our wall mount kit, a detailed installation manual and all parts necessary for assembly are provided.
- Do not use screws that do not comply with the VESA standard screw specifications.
- Do not use screws that are longer than the standard dimension or do not comply with the VESA standard screw specifications. Screws that are too long may cause damage to the inside of the TV set.
- For wall mounts that do not comply with the VESA standard screw specifications, the length of the screws may differ depending on the wall mount specifications.
- Do not fasten the screws too firmly. This may damage the product or cause the product to fall, leading to personal injury. Samsung is not liable for these kinds of accidents.
- Samsung is not liable for product damage or personal injury when a non-VESA or non-specified wall mount is used or the consumer fails to follow the product installation instructions.
- Do not mount the TV at more than a 15 degree tilt.
- Always have two people mount the TV on a wall.

Product Family	TV size in inches	VESA screw hole specs (A * B) in millimeters	Standard Screw	Quantity
LED-TV	19~22	75 X 75	M4	4
	26	100 X 100		
	32~40	200 X 200	M6	
	46~60	400 X 400	M8	



Do not install your Wall Mount Kit while your TV is turned on. It may result in personal injury due to electric shock.

## Securing the TV to the Wall



**Caution:** Pulling, pushing, or climbing onto the TV may cause the TV to fall. In particular, ensure that your children do not hang over or destabilize the TV; doing so may cause the TV to tip over, resulting in serious injuries or death. Follow all safety precautions provided on the included Safety Flyer. For added stability, install the anti-fall device for safety purposes, as follows.

### To prevent the TV from falling

✎ Since the necessary brackets, screws, and string or cable are not supplied, please purchase these separately.

1. Insert the screws into the wall brackets and firmly fasten them to the wall. Make sure the screws are firmly fixed to the wall.

✎ We strongly recommend you drive the screws into a stud.

2. Using screws, insert the screws through the TV brackets, and then fasten the screws to the top VESA screw holes on the back of the TV.

3. Connect the brackets on the TV and the brackets on the wall with a strong string or cable, and then tie the string or cable tightly to the brackets.

✎ Verify all connections are properly secured. Periodically check the connections for any sign of fatigue or failure. If you have any doubt about the security of your connections, contact a professional installer.




✎ Install the TV close to the wall so that it does not fall.

✎ Connect the string or cable so that the brackets on the wall are at the same height or lower than the brackets on the TV. Untie the string or cable before moving the TV.

✎ To purchase a TV Holder kit, contact Samsung customer care.

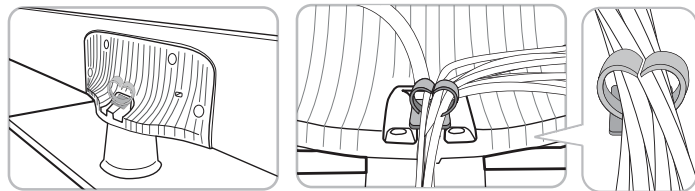
## Kensington Lock

The Kensington Lock is not supplied by Samsung. It is a device used to physically fix the system when using it in a public place. Refer to the manual provided with the Kensington Lock for additional information on proper use.

 Please find a “” icon on the rear of the TV. The Kensington slot is beside the “” icon.

 The position and color may differ depending on the model.

## Assembling the Wire Holder stand



## Display Modes (HDMI/DVI Input)

Optimal resolution is 1920 x 1080@60Hz.


Mode	Resolution	Horizontal Frequency (KHz)	Vertical Frequency (Hz)	Pixel Clock Frequency (MHz)	Sync Polarity (H / V)
IBM	640 x 350	31.469	70.086	25.175	+/-
	720 x 400	31.469	70.087	28.322	-/+
	640 x 480	35.000	66.667	30.240	-/-
MAC	832 x 624	49.726	74.551	57.284	-/-
	1152 x 870	68.681	75.062	100.000	-/-
	640 x 480	31.469	59.940	25.175	-/-
VESA DMT	640 x 480	37.861	72.809	31.500	-/-
	640 x 480	37.500	75.000	31.500	-/-
	800 x 600	37.879	60.317	40.000	+/+
	800 x 600	48.077	72.188	50.000	+/+
	800 x 600	46.875	75.000	49.500	+/+
	1024 x 768	48.363	60.004	65.000	-/-
	1024 x 768	56.476	70.069	75.000	-/-
	1024 x 768	60.023	75.029	78.750	+/+
	1152 x 864	67.500	75.000	108.000	+/+
	1280 x 720	45.000	60.000	74.250	+/+
	1280 x 800	49.702	59.810	83.500	-/-
	1280 x 1024	63.981	60.020	108.000	+/+
	1280 x 1024	79.976	75.025	135.000	+/+
	1366 x 768	47.712	59.790	85.500	+/+
	1440 x 900	55.935	59.887	106.500	-/-
	1600 x 900RB	60.000	60.000	108.000	+/+
	1680 x 1050	65.290	59.954	146.250	-/-
	1920 x 1080	67.500	60.000	148.500	+/+


## Troubleshooting


If the TV seems to have a problem, first review this list of possible problems and solution. If none of these troubleshooting tips apply, visit [samsung.com](http://samsung.com), then click on Support, or call Samsung customer service at 1-800-SAMSUNG.

Problem	Possible Solution
Flickering and Dimming	<p>If your Samsung Television is flickering or dimming sporadically, you may need to disable some of its energy efficient features like the Eco Sensor or the Energy Saving feature. Follow the steps below with your remote to turn these features off or on.</p> <ul style="list-style-type: none"> <li>• <b>Energy saving : Menu → Setup → Eco Solution → Energy Saving → Select Settings</b></li> <li>• <b>Eco Sensor : Menu → Setup → Eco Solution → Eco Sensor → Select Settings</b></li> </ul>
Component Connections / Screen Color	<p>If you find that the color on your Samsung television's screen is not correct or black and white, first run a Self Diagnosis Test on the TV to make sure there are no device issues.</p> <ul style="list-style-type: none"> <li>• <b>Self Diagnosis : User Menu → Support → Self Diagnosis → Picture Test</b></li> <li>• If the test is ok, try making sure ;</li> <li>• Your connections are all consistent. For example, if you've used the AV In jack on your TV, make sure you have used the AV Out jack on your video source.</li> <li>• Try making sure you have connected to the correct jacks. For example, if you use the Component jacks, labeled Pb, Pr, and Y, to connect your TV and video source, make sure you have connected the blue Pb jack on the video source to the blue Pb jack on the TV, the red Pr jack on the source to the red Pr jack on the TV.</li> </ul>
Screen Brightness	<p>If you find that the colors on your Samsung TV are correct but just a little too dark or bright, there are some settings you should check before calling for a repair.</p> <ul style="list-style-type: none"> <li>• Backlight, Contrast, Brightness, Sharpness, Color, Tint and so on. Go to "Picture" in the Menu, and then try adjusting these options.</li> </ul>
Unwanted Powering off	<p>If your Samsung TV appears to turn off by itself, there may be an issue with either your Timer settings or your Eco friendly No Signal Power Off feature.</p> <p>First make sure the Sleep Timer is not accidentally set. The Sleep Timer lets you fall asleep with the TV still on knowing that it will turn off after a certain period of time and not waste energy.</p> <ul style="list-style-type: none"> <li>• <b>Sleep Timer : User Menu → Setup → Time → Sleep Timer</b></li> </ul> <p>If the Sleep Timer is not activated, you may have engaged the No Signal Power Off or Auto Power Off feature.</p> <ul style="list-style-type: none"> <li>• <b>No Signal Power Off : User Menu → Setup → Eco Solution → No Signal Power</b></li> <li>• <b>Auto Power Off : User Menu → Setup → Eco Solution → Auto Power Off</b></li> </ul>




Trouble Powering On	<p><b>Before you turn the TV on, find the red light on the right or left bottom of your TV. Press the power on button on the TV or remote and the light should blink about 5 times before the TV turns on.</b></p> <p>If you find that you are having trouble powering on your Samsung television, there are a number of things to check it before making a call to the service department.</p> <ul style="list-style-type: none"> <li>• If you happen to be using the TV as a monitor and the stand-by light only blinks for a few seconds when you press the power button, your PC is in sleep mode. To take your PC out of sleep mode, press a key on your keyboard or move the mouse. Then try turning your TV on.</li> </ul> <p>If you're sure your power cord, remote control, and PC are functioning properly, you may be having a cable issue. If you have a cable or satellite box, your TV may appear to be off because the cable or satellite box is not outputting a signal. To test the signal output of your cable or satellite box, press the guide or info button on the cable or satellite box remote control. If the screen displays the guide or info data, the problem is caused by the box.</p>
Stand Assembly	<ul style="list-style-type: none"> <li>• If you have any trouble assembling the stand, refer to "Install the Stand" in the Start Up or Stand Installation Guide.</li> </ul>
Cannot find a channel	<ul style="list-style-type: none"> <li>• Re-run Plug &amp; Play or run Auto Program. (go to <b>MENU - Channel - Auto Program</b>)</li> </ul>
<b>Poor Picture</b>	<p>First, perform the <b>Picture Test</b> and to see if your TV is displaying the test image properly. Go to <b>MENU - Support - Self Diagnosis - Picture Test</b></p> <p>If the test image is properly displayed, the poor picture may be caused by the source or signal.</p>
The TV image does not look as good as it did in the store.	<ul style="list-style-type: none"> <li>• If you have an analog cable/satellite box, upgrade to a digital set top box. Use HDMI or Component cables to deliver HD (high definition) picture quality.</li> <li>• Cable/Satellite subscribers: Try HD channels from the channel line up.</li> <li>• Air/Cable Antenna connection: Try HD channels after running Auto Program.</li> <li>•  Many HD channels broadcast up scaled SD (Standard Definition) content. The picture quality of up scaled SD content is low.</li> <li>• Adjust the Cable/Set top box video output resolution to 1080i or 720p.</li> </ul>
The picture is distorted: macroblock error, small block, dots, pixelization.	<ul style="list-style-type: none"> <li>• Compression of video contents may cause picture distortion, especially on fast moving pictures such as those in sports and action movies.</li> <li>• A weak signal can cause picture distortion. This is not a TV problem.</li> <li>• Mobile phones used close to the TV (within 3.3ft) may cause noise in the picture on analog and digital channels.</li> </ul>
Color is wrong or missing.	<ul style="list-style-type: none"> <li>• If you're using a component connection, make sure the component cables are connected to the correct jacks. Incorrect or loose connections may cause color problems or a blank screen.</li> </ul>
There is poor color or brightness.	<ul style="list-style-type: none"> <li>• Adjust the Picture options in the TV menu. (go to <b>Picture Mode / Color / Brightness / Sharpness</b>)</li> <li>• Adjust the <b>Energy Saving</b> option in the TV menu. (go to <b>MENU - Setup - Eco Solution - Energy Saving</b>)</li> <li>• Try resetting the picture to the default picture settings. (go to <b>MENU - Picture - Picture Reset</b>)</li> </ul>
There is a dotted line on the edge of the screen.	<ul style="list-style-type: none"> <li>• If the picture size is set to <b>Screen Fit</b>, change it to 16:9.</li> <li>• Change the cable/satellite box resolution.</li> </ul>
The picture is black and white.	<ul style="list-style-type: none"> <li>• If you are using an AV composite input, connect the video cable (yellow) to the Green jack of Component Input 1 on the TV.</li> </ul>
When changing channels, the picture freezes or is distorted or delayed.	<ul style="list-style-type: none"> <li>• If connected to a cable box, please try to reset it. (Reconnect the AC cord and wait until the cable box reboots. It may take up to 20 minutes)</li> <li>• Set the output resolution of the cable box to 1080i or 720p.</li> </ul>
<b>Sound Problems</b>	<p>Perform the <b>Sound Test</b> to confirm that your TV audio is properly operating. (go to <b>MENU - Support - Self Diagnosis - Sound Test</b>)</p> <p>If the audio is OK, the sound problem may be caused by the source or signal.</p>
There is no sound or the sound is too low at maximum volume.	<ul style="list-style-type: none"> <li>• Check the volume of the device (Cable/Sat Box, DVD, Blu-ray, etc.) connected to your TV.</li> </ul>
The picture is good, but there is no sound.	<ul style="list-style-type: none"> <li>• If you are using an external device, check the device's audio output option. Ex. you may need to change your cable box's audio option to HDMI if the box is connected to your TV using an HDMI cable.</li> <li>• Reboot the connected device by reconnecting the device's power cable.</li> </ul>
The speakers are making an inappropriate noise.	<ul style="list-style-type: none"> <li>• Check the cable connections. Make sure a video cable is not connected to an audio input.</li> <li>• For Antenna or Cable connections, check the signal information. A weak signal may cause sound distortion.</li> <li>• Perform the <b>Sound Test</b> as explained above.</li> </ul>
<b>No Picture, No Video</b>	
The TV will not turn on.	<ul style="list-style-type: none"> <li>• Make sure the AC power cord is securely plugged into the wall outlet and the TV.</li> <li>• Make sure the wall outlet is working.</li> <li>• Try pressing the <b>POWER</b> button on the TV to make sure the problem is not the remote. If the TV turns on, refer to 'Remote control does not work' below.</li> </ul>
The TV turns off automatically.	<ul style="list-style-type: none"> <li>• Ensure the <b>Sleep Timer</b> is set to <b>Off</b> in the <b>Time</b> menu.</li> <li>• If your PC is connected to the TV, check your PC power settings.</li> <li>• Make sure the AC power cord is plugged securely into the wall outlet and the TV.</li> <li>• When you are watching TV connected to an antenna or cable connection, the TV will turn off after 10 - 15 minutes if there is no signal.</li> </ul>

There is no picture/video.	<ul style="list-style-type: none"> <li>Check the cable connections. (Remove and reconnect all cables connected to the TV and external devices).</li> <li>Set your external device's (Cable/Sat Box, DVD, Blu-ray etc) video outputs to match the connections to the TV input. For example, if an external device's output is HDMI, it should be connected to an HDMI input on the TV.</li> <li>Make sure your connected devices are powered on.</li> <li>Be sure to select the correct input source by pressing the <b>SOURCE</b> button on the remote control.</li> <li>Reboot the connected device by reconnecting the device's power cable.</li> </ul>
<b>RF (Cable/Antenna) Connection</b>	
The TV is not receiving all channels.	<ul style="list-style-type: none"> <li>Make sure the coaxial cable is connected securely.</li> <li>Run Auto Program to add available channels to the channel list. go to <b>MENU - Channel - Auto program</b> then select <b>Auto</b> and make sure the correct Cable TV signal type is set in the menu. There are 3 options. (<b>STD, HRC and IRC</b>)</li> <li>Verify the antenna is positioned correctly.</li> </ul>
No Caption on digital channels.	<ul style="list-style-type: none"> <li>Check the Caption Setup menu. Try changing <b>Caption Mode Service 1</b> to <b>CC1</b>.</li> <li>Some channels may not have caption data.</li> </ul>
The picture is distorted: macroblock, error, small block, dots, pixelization.	<ul style="list-style-type: none"> <li>Compression of video contents may cause picture distortion, especially on fast moving pictures such as those in sports and action movies.</li> <li>A weak signal can cause picture distortion. This is not a TV problem.</li> </ul>
<b>Others</b>	
Purple/green rolling horizontal bars and buzzing noise from the TV speakers with Component cable connection.	<ul style="list-style-type: none"> <li>Remove the left and right audio connections from the set-top-box. If the buzzing stops, this indicates that the set-top-box has a grounding issue. Replace the Component video cables with an HDMI connection.</li> </ul>
The picture will not display in full screen.	<ul style="list-style-type: none"> <li>HD channels will have black bars on either side of the screen when displaying up scaled SD (4:3) contents.</li> <li>Black bars on the top and bottom appear when movies that have aspect ratios different from your TV play on the TV.</li> <li>Adjust the picture size option on your external device or change the TV to full screen.</li> </ul>
The remote control does not work.	<ul style="list-style-type: none"> <li>Replace the remote control's batteries. Make sure you insert them with the polarity (+/-) correct .</li> <li>Clean the transmission window located on the top of the remote control.</li> <li>Try pointing the remote directly at the TV from 5~6 feet away.</li> </ul>
The cable/set top box remote control does not turn the TV on or off, or adjust the volume.	<ul style="list-style-type: none"> <li>Program the Cable/Set top box remote control to operate the TV. Refer to the Cable/Set top box user manual for the SAMSUNG TV code.</li> </ul>
A " <b>Mode Not Supported</b> " message appears.	<ul style="list-style-type: none"> <li>Check the supported resolution of the TV and adjust the external device's output resolution accordingly. Refer to resolution settings in this manual.</li> </ul>
<b>Caption</b> on the TV menu is greyed out.	<ul style="list-style-type: none"> <li>You cannot select <b>Caption</b> in the TV menu when watching content from a device connected via HDMI or Component.</li> <li><b>Caption</b> must be activated on the external device.</li> </ul>
There is a plastic smell from the TV.	<ul style="list-style-type: none"> <li>This smell is normal and will dissipate in a few days.</li> </ul>
TV <b>Signal Strength</b> is unavailable in the <b>Self Diagnosis</b> Test menu.	<ul style="list-style-type: none"> <li>This function is only available for digital channels received through an Antenna / RF/Coax connection.</li> </ul>
TV is tilted to the right or left side.	<ul style="list-style-type: none"> <li>Remove the stand base from the TV and reassemble it.</li> </ul>
The <b>Channel</b> menu is grey out (unavailable).	<ul style="list-style-type: none"> <li>The <b>Channel</b> menu is only available when you select the TV source.</li> </ul>
Your settings are lost after 30 minutes or every time the TV is turned off.	<ul style="list-style-type: none"> <li>If TV is in the <b>Store Demo</b> mode, it will reset audio and picture settings every 30 minutes. Please change from <b>Store Demo</b> mode to <b>Home Use</b> mode using the <b>Plug &amp; Play</b> procedure. Press the <b>SOURCE</b> button to select <b>TV</b> mode, go to <b>MENU → Setup → Plug &amp; Play → ENTER</b> .</li> </ul>
You have intermittent loss of audio or video.	<ul style="list-style-type: none"> <li>Check the cable connections and reconnect them.</li> <li>Loss of audio or video can be caused by using overly rigid or thick cables. Make sure the cables are flexible enough for long term use. If mounting the TV to the wall, we recommend using cables with 90 degree connectors.</li> </ul>
You see small particles when you look closely at the edge of the frame of the TV.	<ul style="list-style-type: none"> <li>This is part of the product's design and is not a defect.</li> </ul>
POP (TV's internal banner ad) appears on the screen.	<ul style="list-style-type: none"> <li>Select <b>Home Use</b> under <b>Plug &amp; Play</b> mode. For details, refer to <b>Plug &amp; Play</b> (Initial Setup).</li> </ul>

 This TFT LED panel uses a panel consisting of sub pixels which require sophisticated technology to produce. However, there may be a few bright or dark pixels on the screen. These pixels will have no impact on the performance of the product.

 Watch these troubleshooting on video at [www.samsung.com/spsn](http://www.samsung.com/spsn).

 Some functions and pictures shown in this manual are available on specific models only.

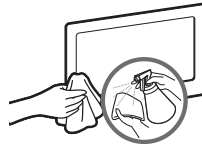
 You can keep your TV in optimum condition by upgrading it with the latest firmware from the Samsung web site ([samsung.com](http://samsung.com) → Support → Downloads). To upgrade, download the firmware to your computer, copy the firmware file to a USB memory stick, insert the USB memory stick into the TV's USB slot, and then select Support > Software Upgrade in the TV's menu.

## Storage and Maintenance

- ✎ If a sticker was attached to the TV screen, some debris can remain after you remove the sticker. Please clean it before watching the TV.
- ✎ The exterior and screen of the product can get scratched during cleaning. Be sure to wipe the exterior and screen carefully using a soft cloth to prevent scratches.




Do not spray water directly onto the product. Any liquid that goes into the product may cause a failure, fire, or electric shock.



Clean the product with a soft cloth dampened with in a small amount of water. Do not use a flammable liquid (e.g. benzene, thinners) or a cleaning agent.

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SRS TheaterSound™ provides the most immersive surround sound experience from the TV's built-in speakers, while maintaining steady volume and delivering rich bass and clear dialog.



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### ■ This product uses some software programs which are distributed under the Independent JPEG Group.

ICU License - ICU 1.8.1 and later

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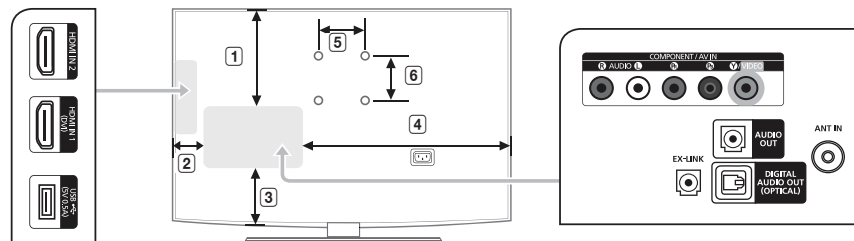
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# Specifications

Environmental Considerations						
Operating Temperature	50°F to 104°F (10°C to 40°C)					
Operating Humidity	10% to 80%, non-condensing					
Storage Temperature	-4°F to 113°F (-20°C to 45°C)					
Storage Humidity	5% to 95%, non-condensing					
Model Name	UN40EH6000 UN40EH6050	UN46EH6000 UN46EH6050	UN50EH6000 UN50EH6050	UN55EH6000 UN55EH6050	UN60EH6000 UN60EH6050	UN65EH6000 UN65EH6050
Display Resolution	1920 x 1080					
Screen Size (Diagonal)	40" Class (40.0" measured diagonally)	46" Class (45.9" measured diagonally)	50" Class (49.5" measured diagonally)	55" Class (54.6" measured diagonally)	60" Class (60.0" measured diagonally)	65" Class (64.5" measured diagonally)
Sound Output	10W x 2					
Dimensions (W x D x H)						
Body	36.5 X 3.6 X 21.8 inches (927.6 X 93.3 X 555.5 (mm))	41.7 X 3.7 X 24.7 inches (1059.8 X 94.3 X 629.4 (mm))	44.7 X 3.7 X 26.5 inches (1137.6 X 94.5 X 673.4 (mm))	49.2 X 3.7 X 28.9 inches (1250.6 X 94.3 X 735.7 (mm))	54.0 X 3.7 X 31.7 inches (1374.1 X 94.3 X 807.0 (mm))	58.4 X 3.8 X 34.4 inches (1484.5 X 96.3 X 873.8 (mm))
With stand	36.5 X 8.9 X 23.8 inches (927.6 X 227.6 X 606.5 (mm))	41.7 X 8.9 X 26.7 inches (1059.8 X 227.6 X 680.3 (mm))	44.7 X 8.9 X 28.5 inches (1137.6 X 227.6 X 725.0 (mm))	49.2 X 8.9 X 31.0 inches (1250.6 X 227.6 X 789.2 (mm))	54.0 X 12.9 X 33.8 inches (1374.1 X 329.8 X 859.0 (mm))	58.4 X 12.9 X 36.4 inches (1484.5 X 329.8 X 926.5 (mm))
Weight						
Without Stand	20.2 lbs (9.2 kg)	26.4 lbs (12.0 kg)	34.3 lbs (15.6 kg)	45.6 lbs (20.7 kg)	54.6 lbs (24.8 kg)	62.3 lbs (28.3 kg)
With Stand	24.6 lbs (11.2 kg)	30.8 lbs (14.0 kg)	40.1 lbs (18.2 kg)	51.3 lbs (23.3 kg)	60.4 lbs (27.4 kg)	71.6 lbs (32.5 kg)

- Design and specifications are subject to change without prior notice.
- This device is a Class B digital apparatus.
- For information about power supply, and more about power consumption, refer to the label attached to the product.
- Typical power consumption is measured according to Energy Star Program requirements for Televisions.
- Dispose unwanted electronics through an approved recycler. To find the nearest recycling location, go to our website: [www.samsung.com/recyclingdirect](http://www.samsung.com/recyclingdirect) or call, (877) 278-0799.

## JACK PANEL DETAIL / REAR VIEW



(Unit: inches)

Model name	①	②	③	④	⑤	⑥
UN40EH6000 / UN40EH6050	9.6	5.8	5.8	24.1	7.8	7.8
UN46EH6000 / UN46EH6050	11.6	5.2	7.3	29.8	15.7	15.7
UN50EH6000 / UN50EH6050	12.5	6.8	8.1	31.3	15.7	15.7
UN55EH6000 / UN55EH6050	15.5	6.1	7.6	36.4	15.7	15.7
UN60EH6000 / UN60EH6050	16.7	8.6	8.8	38.5	15.7	15.7
UN65EH6000 / UN65EH6050	19.0	10.7	9.5	41.8	15.7	15.7

NOTE: All drawings are not necessarily to scale. Some dimensions are subject to change without prior notice. Refer to the dimensions prior to performing installation of your TV. Not responsible for typographical or printed errors.

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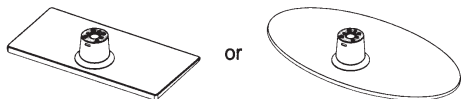
**STOP****Assemble Stand before removing TV from shipping box**

## Installing the TV Stand

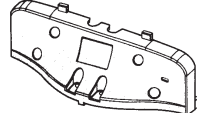
### Components

When installing the stand, use the provided components and parts.

1 EA



1 EA



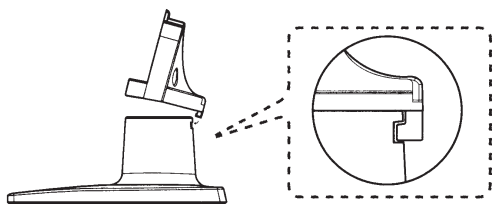
x8 (M4 X L12)

Stand (depending on the model)

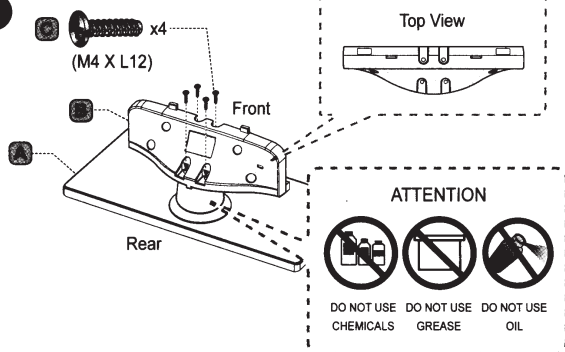
Guide Stand

Screws

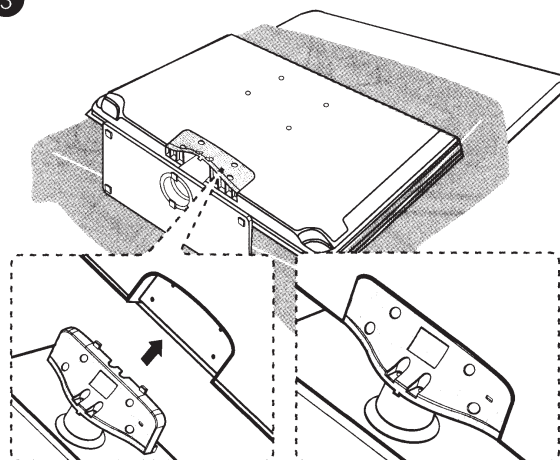
1



2



3

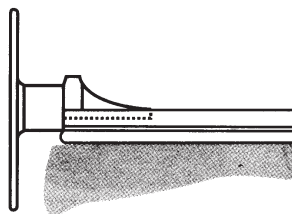


Place a soft cloth over the table to protect the TV, and then place the TV on the cloth screen side down.

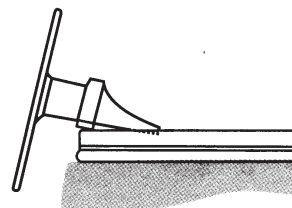
Insert the Stand Guide into the slot of TV bottom side.

4 Side View

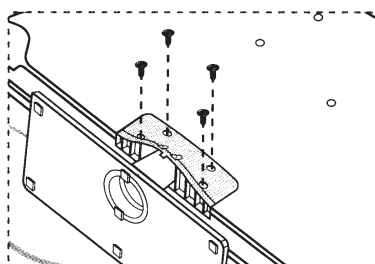
(Correct assembly)



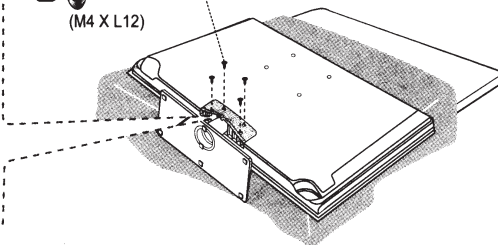
(Incorrect assembly)



5



x4  
(M4 X L12)



### Caution



- Make sure to distinguish between the front and back of each component when assembling them.
- Make sure that at least two persons lift and move the TV.



**BN68-04027A-00**



BN68-04027A-00



DO NOT RETURN  
TO STORE

**For any problem**

**Search helpful video**  
[samsung.com/spsn](http://samsung.com/spsn)

**Chat**  
[samsung.com/support](http://samsung.com/support)

**Call Samsung Support**  
1-888-899-7604



Scan this with your  
smartphone



BN68-03608A-08

## Top 5 Troubleshooting Tips

### 1. Can't Connect with Network or Apps (For internet supported model only)

- Make sure there is a network connection  
(Menu → Network → Network status)
- Contact your service provider

### 2. No Picture/Sound or Distorted Picture/Sound with an External Device

- Make sure your connection to the device is correct.
- Perform a TV Self Diagnosis to identify the problem  
(Menu → Support → Self Diagnosis → Sound or Picture Test)
- Change the picture size (Use "P. Size" button on your remote)

### 3. Poor Picture Quality

- Verify your signal is High Definition or Standard Definition  
(Contact your service provider)

### 4. Your Settings are Lost after 30 Minutes

- Change to Home Mode  
(“Tools” on your remote → Store Demo Off)

### 5. “Weak or No Signal” Displayed in TV Mode / Cannot Find Channel

- Press Source button on your remote
- Run Auto Program and search for channels  
(Menu → System → Plug & Play → Enter)

## TV 5 Problemas Principales

### 1. No se puede conectar con la Red o Apps (Solo para modelos que soporten conexión a internet)

- Asegúrese que el equipo este conectado a una red  
(Menú → Red → Estado de Red)
- Contactar a su proveedor de Internet

### 2. No hay Imagen/sonido o Distorsión de Imagen/sonido con un dispositivo externo

- Asegure que la conexión física del dispositivo sea correcta
- Para identificar el problema, realice un Auto diagnostico en la TV  
(Menú → Soporte de Tecnico → Autodiagnostico → Prueba de Imagen o Sonido)
- Cambie el tamaño de la imagen (Use el botón “P. Size” del control remoto)

### 3. Mala Calidad de Imagen

- Verificar si su señal es Alta Definición o Definición Regular  
(Contactar a su proveedor de Servicios)

### 4. Su configuración se pierde después de 30 minutos

- Cambiar a Uso Domiciliario  
(Use el botón “Tools” del control remoto → Demo Comercio Desac.)

### 5. “Señales Debiles o Inexistentes” Mensaje desplegado en TV Mode / No puede encontrar canales

- Presione el botón “Source” en su control remoto
- Corra Auto Program e inicie búsqueda de canales  
(Menú → Sistema → Plug & Play → Enter)

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to view our helpful  
How-to Videos

Escanear el Código QR para ver nuestros  
videos demostrativos de Video Guía

1.



2.



3.



4.



5.



# Warning! Important Safety Instructions

(Please read the appropriate section that corresponds to the marking on your Samsung product before attempting to install the product.)

## CAUTION

### RISK OF ELECTRIC SHOCK DO NOT OPEN

CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). THERE ARE NO USER SERVICEABLE PARTS INSIDE. REFER ALL SERVICING TO QUALIFIED PERSONNEL.



This symbol indicates that high voltage is present inside. It is dangerous to make any kind of contact with any internal part of this product.



This symbol alerts you that important literature concerning operation and maintenance has been included with this product.

- The slots and openings in the cabinet and in the back or bottom are provided for necessary ventilation. To ensure reliable operation of this apparatus, and to protect it from overheating, these slots and openings must never be blocked or covered.
  - Do not cover the slots and openings with a cloth or other materials.
  - Do not block the slots and openings by placing this apparatus on a bed, sofa, rug or other similar surface.
  - Do not place this apparatus in a confined space, such as a bookcase, or built-in cabinet, unless proper ventilation is provided.
  - Install the product keeping the specified distance from the wall (see the information below.)
    - \* DLP TVs, Direct View Type TVs, and Projectors → 10cm
    - \* Products with 32" or larger displays → 5cm
    - \* Other products → 4cm
- Do not place this apparatus near or over a radiator or heat resistor, or where it is exposed to direct sunlight.
- Do not place a water containing vessel (vases etc.) on this apparatus, as this can result in a risk of fire or electric shock.
- Do not expose this apparatus to rain or place it near water (near a bathtub, washbowl, kitchen sink, or laundry tub, in a wet basement, or near a swimming pool etc.). If this apparatus accidentally gets wet, unplug it and contact an authorized dealer immediately. Make sure to pull out the power cord from the outlet before cleaning.
- This apparatus uses batteries. In your community there might be regulations that require you to dispose of these batteries properly under environmental considerations. Please contact your local authorities for disposal or recycling information.
- Do not overload wall outlets, extension cords or adaptors beyond their capacity, since this can result in fire or electric shock.
- Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plug end, adaptors and the point where they exit from the appliance.
- To protect this apparatus from a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna or cable system. This will prevent damage to the set due to lightning and power line surges.
- Before connecting the AC power cord to the DC adaptor outlet, make sure the voltage designation of the DC adaptor corresponds to the local electrical supply.
- Never insert anything metallic into the open parts of this apparatus. Doing so may create a danger of electric shock.
- To avoid electric shock, never touch the inside of this apparatus. Only a qualified technician should open this apparatus.
- Make sure to plug the power cord in until it is firmly inserted. When removing the power cord, make sure to hold the power plug when pulling the plug from the outlet. Do not touch the power cord with wet hands.
- If this apparatus does not operate normally - in particular, if there are any unusual sounds or smells coming from it
  - unplug it immediately and contact an authorized dealer or service center.
- Be sure to pull the power plug out of the outlet if the TV is to remain unused or if you are to leave the house for an extended period of time (especially when children, elderly or disabled people will be left alone in the house).
  - Accumulated dust can cause an electric shock, an electric leakage or a fire by causing the power cord to generate sparks and heat or the insulation to deteriorate.
- Be sure to contact an authorized service center, when installing your set in a location with heavy dust, high or low temperatures, high humidity, chemical substances and where it operates for 24 hours such as the airport, the train station etc. Failure to do so may cause serious damage to your set.
- Use only a properly grounded plug and receptacle.
  - An improper ground may cause electric shock or equipment damage. (Class I Equipment only.)
- To disconnect the apparatus from the mains, the plug must be pulled out from the mains socket, therefore the mains plug shall be readily operable.
- Do not allow children to hang onto the product.
- Store the accessories (battery, etc.) in a location safely out of the reach of children.
- Do not install the product in an unstable location such as a shaky shelf, a slanted floor or a location exposed to vibration.
- Do not drop or impart any shock to the product. If the product is damaged, disconnect the power cord and contact a service center.
- Unplug the power cord from the power outlet and wipe the product using a soft, dry cloth. Do not use any chemicals such as wax, benzene, alcohol, thinners, insecticide, air freshener, lubricant or detergent. This may damage the appearance or erase the printing on the product.
- Apparatus shall not be exposed to dripping or splashing.
- Do not dispose of batteries in a fire.
- Do not short circuit, disassemble or overheat the batteries.
- Danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type.
- **WARNING - TO PREVENT THE SPREAD OF FIRE, KEEP CANDLES OR OTHER OPEN FLAMES AWAY FROM THIS PRODUCT AT ALL TIMES.**



# Avertissement! Consignes de sécurité importantes

(Avant toute installation de votre produit Samsung, veuillez lire les sections correspondant aux inscriptions qui figurent sur ce produit.)

## ATTENTION

### RISQUE D'ELECTROCUTION NE PAS OUVRIR

ATTENTION: POUR REDUIRE LES RISQUES D'ELECTROCUTION, NE RETIREZ PAS LE CAPOT (NI LE PANNEAU ARRIERE). A L'INTERIEUR DE L'APPAREIL, AUCUNE PIECE NE PEUT ETRE REPARÉE PAR L'UTILISATEUR. POUR TOUT DEPANNAGE, ADRESSEZ-VOUS A UN SPECIALISTE.



Ce symbole indique qu'une tension élevée est présente à l'intérieur de l'appareil. Tout contact avec une pièce située à l'intérieur de cet appareil est dangereux.



Ce symbole vous prévient qu'une documentation importante relative au fonctionnement et à l'entretien est fournie avec le produit.

- Les fentes et les ouvertures ménagées dans le boîtier ainsi qu'à l'arrière et au-dessous de l'appareil assurent la ventilation de ce dernier. Afin de garantir le bon fonctionnement de l'appareil et éviter les risques de surchauffe, ces fentes et ouvertures ne doivent être ni obstruées ni couvertes.
  - Ne couvrez pas les fentes et les ouvertures avec un morceau de tissu ou tout autre objet.
  - Ne les obstruez pas non plus en plaçant l'appareil sur un lit, un canapé, un tapis ou toute autre surface apparentée.
  - Ne placez pas l'appareil dans un environnement clos tel qu'une bibliothèque ou une armoire encastrée, sauf si une ventilation adéquate est prévue.
  - Installez le produit en maintenant une distance correcte avec le mur (voir informations ci-dessous).
    - \* Téléviseurs DLP, téléviseurs de type Direct View et projecteurs → 10 cm
    - \* Appareils dotés d'un écran 32" ou plus → 5 cm
    - \* Autres produits → 4 cm
- Ne placez pas l'appareil à proximité ou au-dessus d'un radiateur ou d'une bouche d'air chaud, de même que dans un endroit exposé à la lumière directe du soleil.
- Ne placez aucun récipient (vases, etc.) d'eau sur l'appareil car cela représente un risque d'incendie ou de décharge électrique.
- N'exposez pas l'appareil à la pluie et ne le placez pas à proximité d'une source d'eau, par exemple une baignoire, un lavabo, un évier, un bac de lavage, un sous-sol humide, une piscine, etc. Si l'appareil vient à être mouillé par accident, débranchez-le et contactez immédiatement un revendeur agréé. Assurez-vous que le cordon d'alimentation est débranché avant de nettoyer le produit.
- Cet appareil peut fonctionner sur piles. Dans un souci de préservation de l'environnement, la réglementation locale prévoit peut-être des mesures spécifiques de récupération des piles usagées. Veuillez donc contacter les autorités compétentes afin d'obtenir des informations sur la mise au rebut ou le recyclage des piles.
- Évitez de surcharger les prises murales, les rallonges et les prises multiples car cela entraîne un risque d'incendie ou de décharge électrique.
- Les cordons d'alimentation doivent être déroulés de sorte qu'aucun objet placé sur ou contre eux ne les chevauche ou les pince. Accordez une attention particulière aux cordons au niveau des fiches, des prises et de la sortie de l'appareil.
- En cas d'orage, ou bien lorsque vous vous absentez ou n'utilisez pas votre appareil pendant une longue période, débranchez celui-ci de la prise murale et débranchez également le câble d'antenne ou le cordon de connexion au réseau câble.
- Ces précautions éviteront que l'appareil ne soit endommagé par la foudre ou par des surtensions.
- Avant de raccorder le cordon d'alimentation CA à la prise de l'adaptateur CC, vérifiez que la tension indiquée sur ce dernier correspond bien à la tension délivrée par le réseau électrique local.
- N'insérez aucun objet métallique dans les ouvertures de l'appareil, vous risqueriez de recevoir une décharge électrique.
- Afin d'éviter tout risque d'électrocution, ne mettez jamais les doigts à l'intérieur de l'appareil. Seul un technicien qualifié est habilité à ouvrir le boîtier de l'appareil.
- Assurez-vous de bien brancher le cordon d'alimentation. Assurez-vous de bien tenir la prise en main lorsque vous la débranchez. Ne touchez en aucune circonstance le cordon d'alimentation avec les mains mouillées.
- Si l'appareil ne fonctionne pas normalement, en particulier s'il émet des odeurs ou des sons anormaux, débranchez-le immédiatement et contactez un revendeur ou un centre de dépannage agréé.
- Veillez à bien débrancher le cordon d'alimentation si la télévision doit rester inutilisée, ou lorsque vous quittez votre domicile, pendant une période assez longue (et plus spécialement si des enfants, des personnes âgées ou des majeurs incapables doivent rester seuls à votre domicile).
  - L'accumulation de poussières peut provoquer une électrocution, une perte d'énergie, ou un incendie induit par le cordon d'alimentation, dû à des variations de tension, une surchauffe ou une détérioration de l'isolation.
- Veillez à contacter un centre de services homologué lorsque vous installez votre téléviseur dans un endroit très poussiéreux, humide, exposé à des températures élevées ou faibles ou à des produits chimiques, ou s'il fonctionne sans interruption, par exemple dans les aéroports, les gares, etc. Si vous ne le faites pas, vous risquez d'endommager gravement votre téléviseur.
- Utiliser uniquement des prises correctement reliées à la terre.
  - Un sol inadéquat peut causer un choc électrique ou un incendie. (Appareils de CLASSE I uniquement.)
- Pour déconnecter l'appareil du secteur, la prise doit être débranchée de la prise électrique du secteur. Par conséquent, la prise du secteur doit être en état de marche.
- Utiliser uniquement des prises correctement reliées à la terre.
- Rangez les accessoires (batterie, etc.) dans un endroit sûr, hors de la portée des enfants.
- N'installez pas le produit sur une surface instable telle qu'une étagère chancelante, un sol non horizontal ou un endroit soumis à des vibrations.
- Ne faites ni tomber, ni subir de choc au produit. Si le produit est endommagé, déconnectez le cordon d'alimentation et contactez un centre de services.
- Débranchez le cordon d'alimentation de la prise secteur et essuyez le produit à l'aide d'un chiffon doux et sec. N'utilisez pas de produit chimique, tels que de la cire, du benzène, de l'alcool, du diluant, de l'insecticide, du désodorisant, du lubrifiant ou du détergent. Cela peut endommager l'aspect ou effacer l'impression sur l'appareil.
- L'appareil ne doit pas être exposé à l'humidité ni aux éclaboussures.
- Ne jetez pas les batteries au feu.
- Ne court-circuitiez pas ni ne désassemblez les batteries et ne les soumettez pas à une chaleur excessive.
- Un risque d'explosion survient si la batterie est remplacée de manière incorrecte. Ne la remplacez qu'avec une batterie du même type.
- **AVERTISSEMENT - POUR ÉVITER TOUT RISQUE D'INCENDIE, VEILLEZ À GARDER CE PRODUIT LOIN DE BOUGIES OU D'AUTRES SOURCES DE FEU.**



- Français -

# Advertencia! Instrucciones importantes de seguridad

(Lea la sección apropiada que corresponde a la marca del producto Samsung antes de intentar instalar el producto.)

## PRECAUCIÓN

### PELIGRO DE DESCARGA ELÉCTRICA NO ABRIR

PRECAUCIÓN: PARA REDUCIR EL PELIGRO DE DESCARGA ELÉCTRICA, NO RETIRE LA CUBIERTA. NO HAY PIEZAS EN EL INTERIOR QUE PUEDA REPARAR EL USUARIO. CONSULTE AL PERSONAL CALIFICADO DE SERVICIO TÉCNICO.



Este símbolo indica la presencia de alto voltaje en el interior. Es peligroso entrar en contacto con cualquier pieza interior de este producto.



Este símbolo le alerta de que con este producto se incluye documentación importante correspondiente al funcionamiento y mantenimiento.

- Las ranuras y aberturas existentes en la unidad y en la parte trasera o inferior se facilitan para proporcionar la ventilación necesaria. Para garantizar el funcionamiento fiable de este aparato, y para protegerlo frente a sobrecalentamiento, estas ranuras y aberturas nunca deben bloquearse ni cubrirse.
  - No cubra las ranuras y aberturas con un paño o con cualquier otro material.
  - No bloquee las ranuras ni aberturas colocando este aparato sobre la cama, sofá, alfombra o superficie similar.
  - No coloque este aparato en un espacio cerrado, como una librería, o un armario empotrado, a menos que se proporcione una ventilación correcta.
  - Instale el producto conservando la distancia especificada respecto a la pared (vea la información siguiente).
    - \* Televisores DLP, televisores tipo visualización directa y proyectores → 10 cm
    - \* Aparatos con una pantalla de 32" o mayor → 5 cm
    - \* Otros productos → 4 cm
- No coloque este aparato cerca o sobre un radiador o una rejilla de aire caliente, o en lugares expuestos a luz solar directa.
- No coloque recipientes con agua sobre este aparato (jarras, etc.), ya que podría representar riesgo de incendio o descarga eléctrica.
- No exponga este aparato a la lluvia ni lo coloque cerca de agua (cerca de una bañera, lavabo, fregadero o lavadero, en un sótano húmedo ni cerca de una piscina o similar). Si este aparato accidentalmente se moja, desenchúfelo y póngase en contacto inmediatamente con un técnico autorizado. Antes de limpiar el producto desconecte el cable de alimentación de la toma de corriente.
- Este aparato utiliza baterías. En su comunidad puede que existan normativas que requieran la disposición de estas baterías de forma adecuada bajo consideraciones ambientales.
  - Póngase en contacto con las autoridades locales para obtener información sobre desecho y reciclaje.
- No sobrecargue las tomas murales, los alargadores ni los receptáculos correspondientes por encima de su capacidad, ya que esto puede generar incendios o descargas eléctricas.
- Los cables de alimentación y protección deben colocarse de forma que no puedan pisarse ni quedar atrapados por objetos encima o contra ellos, poniendo especial atención en los cables cerca del enchufe, los receptáculos de los electrodomésticos y el punto en el que salen del aparato.
- Para proteger este aparato durante una tormenta eléctrica o cuando no lo utilice durante largos periodos de tiempo, desenchúfelo de la toma de la pared y desconecte la antena o el cable del sistema. Esto evitará que el equipo se dañe por rayos o picos de tensión de la línea eléctrica.
- Antes de conectar el cable de alimentación de CA a la toma del adaptador de CC, asegúrese de que la designación del voltaje del adaptador de CC corresponde a la fuente eléctrica local.
- Nunca inserte nada metálico en las aberturas del aparato. Hacerlo así puede crear peligros de descarga eléctrica.
- Para evitar descarga eléctrica, no toque nunca el interior de este aparato. Sólo un técnico calificado debe abrir el alojamiento del aparato.
- Cuando conecte el cable de alimentación compruebe que el enchufe esté firmemente insertado. Para desenchufar el cable de alimentación, sujételo por el enchufe y tire de éste para sacarlo de la toma de corriente. Nunca toque el cable de alimentación con las manos mojadas.
- Si este aparato no funciona normalmente, en concreto, si emite sonidos extraños o desprende olores desde el interior, desenchúfelo inmediatamente y póngase en contacto con el distribuidor autorizado o el centro de servicio técnico.
- Asegúrese de desconectar el enchufe de alimentación de la toma de corriente si la TV ha dejado de utilizarse, o desea salir de casa, durante un largo periodo de tiempo (especialmente cuando sea necesario dejar solos en casa a niños, ancianos o personas incapacitadas).
  - El polvo acumulado puede provocar una descarga eléctrica, un cortocircuito o un fuego, haciendo que el cable eléctrico genere chispas y calor, o deteriorando la funda protectora.
- Póngase en contacto con un centro de servicio técnico autorizado cuando instale el aparato en un lugar expuesto a gran cantidad de polvo, temperaturas extremas, alto nivel de humedad y productos químicos, y en lugares donde se vaya a utilizar las 24 horas del día, como aeropuertos, estaciones, etc. El incumplimiento de estas indicaciones puede causar serios desperfectos en el aparato.
- Cuando instale el equipo, procure guardar una distancia de más de 10 cm desde la pared para facilitar la ventilación.
- Use solamente conectores y receptáculos apropiados para hacer la conexión a tierra.
  - Una conexión a tierra inapropiada podría causar una descarga eléctrica o una avería en el equipo. (Sólo equipo de Clase I.)
- Para desconectar el aparato de la corriente, debe desenchufar el cable de la toma principal, por lo que el enchufe principal debe estar siempre fácilmente accesible.
- No permita que los niños jueguen con el producto.
- Guarde los accesorios (pilas, etc.) en un lugar seguro fuera del alcance de los niños.
- No coloque el producto en un lugar inestable, inclinado o expuesto a vibraciones.
- No lo deje caer ni le dé golpes. Si el producto se estropea, desenchufe el cable de alimentación y póngase en contacto con un centro de servicio.
- Desconecte el cable de alimentación de la toma de corriente y seque el aparato con un paño suave y seco. No utilice ningún producto químico como cera, benzol, alcohol, disolventes, insecticida, ambientador de aire, lubricante o detergente. Se puede dañar el aspecto o borrar las estampaciones del producto.
- Evite que cualquier líquido salpique el aparato o gotee sobre él.
- No tire las pilas al fuego.
- No cortocircuite, desmonte ni sobrecaliente las pilas.
- Si la pila no se coloca correctamente se corre el riesgo de una explosión. Reemplace la pila sólo por una igual o de especificaciones equivalentes.
- **ADVERTENCIA - PARA IMPEDIR QUE EL FUEGO SE PROPAGUE, MANTENGA LAS VELAS U OTRAS LLAMAS EXPUESTAS SIEMPRE ALEJADAS DE ESTE PRODUCTO.**



- Español -



# Aviso! Instruções de segurança importantes

(Leia a secção adequada que corresponde  
à marca no produto Samsung antes de tentar instalar o produto.)

## ATENÇÃO

### RISCO DE CHOQUE ELECTRICO NÃO ABRA

CUIDADO: PARA REDUZIR O RISCO DE CHOQUE ELECTRICO, NÃO RETIRE A TAMPA (NEM A PARTE TRASIEIRA) NO INTERIOR DO TELEVISOR. NÃO EXISTEM PEÇAS QUE POSSAM SER REPARADAS PELO UTILIZADOR. A ASSISTÊNCIA SÓ PODE SER EFECTUADA POR TÉCNICOS QUALIFICADOS.



Este símbolo indica a existência de alta tensão no interior do televisor. É perigoso tocar em qualquer parte no interior do produto.



Este símbolo informa-o de que este produto inclui literatura importante sobre o respectivo funcionamento e manutenção.

- As ranhuras e aberturas na caixa e na parte posterior ou inferior permitem a ventilação necessária. Para garantir o funcionamento correcto do aparelho e para o proteger do sobreaquecimento, nunca deve bloquear ou tapar estas ranhuras e aberturas.
  - Não tape as ranhuras e aberturas com panos ou outros materiais.
  - Não bloqueie as ranhuras e aberturas colocando o aparelho numa cama, sofá, tapete ou outra superfície semelhante.
  - Não coloque este aparelho num espaço fechado, como uma estante ou um armário embutido, a menos que tenha ventilação adequada.
  - Instale o produto, mantendo a distância da parede especificada (consulte as informações abaixo).
    - \* Televisores DLP, Televisores do Tipo Direct View e Projectores → 10 cm
    - \* Produtos com visores de 32 polegadas ou maiores → 5 cm
    - \* Outros produtos → 4 cm
- Não coloque este aparelho perto ou por cima de um radiador, sistema de aquecimento ou num local em que esteja exposto à incidência directa dos raios solares.
- Não coloque recipientes com água em cima do aparelho (jarras etc.), porque pode provocar um incêndio ou choque eléctrico.
- Não exponha o aparelho à chuva nem coloque em locais perto de água (perto de uma banheira, lavatório, lava-loiça, tubo da máquina de lavar a loiça, piscina ou numa cave com humidade). Se molhar acidentalmente o aparelho, desligue-o da ficha e contacte de imediato o revendedor autorizado. Retire sempre o cabo de alimentação da tomada antes de limpar o produto.
- Este aparelho tem pilhas. Deite fora as pilhas adequadamente de acordo com as considerações ambientais existentes no seu país. Contacte as autoridades locais para obter informações sobre a destruição ou reciclagem de pilhas.
- Não sobrecarregue tomadas de parede, extensões nem receptáculos, porque pode provocar um incêndio ou choque eléctrico.
- Deve colocar os cabos de alimentação de forma a não serem pisados nem entalados por objectos, tendo em especial atenção os cabos ligados a fichas, a receptáculos e ao ponto de onde os cabos saem do aparelho.
- Para proteger o aparelho de trovoadas, ou quando não for utilizá-lo durante longos períodos de tempo, desligue o aparelho da tomada de parede e desligue a antena ou o sistema de televisão por cabo.
  - Deste modo, o aparelho não sofre eventuais danos provocados por raios e descargas em cabos de alta tensão.
- Antes de ligar o cabo de alimentação de CA à tomada do transformador de CC, certifique-se de que a designação de tensão do transformador de CC corresponde à alimentação eléctrica local.
- Nunca introduza objectos metálicos nas aberturas do aparelho. Se o fizer, pode provocar choques eléctricos.
- Para evitar choques eléctricos, nunca toque no interior do aparelho. A caixa do aparelho só deve ser aberta por técnicos qualificados.
- Introduza o cabo de alimentação completamente até ao fim. Quando retirar o cabo de alimentação, certifique-se de que o segura pela ficha quando puxar a mesma da tomada. Não toque no cabo de alimentação com as mãos molhadas.
- Se o aparelho não funcionar normalmente - em particular, se o aparelho emitir ruídos ou cheiros invulgares - desligue o aparelho de imediato e contacte o revendedor autorizado ou centro de assistência técnica.
- Certifique-se de que retira a ficha de alimentação da tomada se o aparelho de televisão não for utilizado ou se o utilizador não estiver em casa durante um período de tempo longo (especialmente quando crianças, idosos ou pessoas com deficiências forem deixadas sozinhas em casa).
  - Poeira acumulada pode provocar um choque eléctrico, uma fuga eléctrica ou um incêndio, fazendo com que o fio de alimentação produza faíscas e aqueça ou deteriore o isolamento.
- Contacte um centro autorizado de assistência técnica quando instalar o produto em locais sujeitos a poeiras excessivas, locais sujeitos a temperaturas altas ou baixas, locais com muita humidade, locais onde se utilizem substâncias químicas e locais onde o monitor esteja a funcionar 24 horas por dia como em aeroportos, estações de comboio, etc. Se não o fizer, pode provocar sérios danos no produto.
- Utilize uma ficha e uma tomada devidamente ligadas à terra.
  - Uma ligação de terra deficiente pode causar choque eléctrico ou danos no equipamento. (Só equipamento de classe I.)
- Deve puxar a ficha da tomada para desligar o aparelho da corrente, de forma a deixar a ficha pronta a ser utilizada.
- Não deixe as crianças mexer no produto.
- Guarde os acessórios (bateria, etc.) num local seguro fora do alcance das crianças.
- Não instale o produto num local instável, como uma prateleira inclinada, um chão desnivelado ou um local exposto à vibração.
- Não deixe cair ou provoque qualquer embate no produto. Se o produto estiver danificado, desligue o cabo de alimentação e contacte um centro de assistência.
- Desligue o cabo de alimentação da tomada e utilize um pano seco e macio para limpar o produto. Não utilize quaisquer produtos químicos como cera, benzina, álcool, diluentes, insecticida, ambientador, lubrificante ou detergente. Tal pode danificar o aspecto do produto ou eliminar a impressão do mesmo.
- Não deixe cair gotas ou salpicos em cima do aparelho.
- Não destrua as pilhas através de fogo.
- Não provoque curto-circuito, nem desfaça ou sobreaqueça as pilhas.
- Existe perigo de explosão se a pilha for substituída incorrectamente. Substitua-a apenas pelo mesmo tipo de pilha ou por uma equivalente.
- **AVISO - PARA EVITAR O ALASTRAR DE UM INCÊNDIO, MANTENHA SEMPRE AS VELAS OU OUTRO TIPO DE CHAMA LONGE DESTA PRODUTO.**



- Português -

# Regulatory Compliance Statements

## Your Samsung product compliance class is marked in the user manual.

- Federal Communications Commission (FCC) - USA
- Industry Canada Equipment Standard for Digital Equipment (ICES-003) - Canada
- Voluntary Control Council for Interference (VCCI) - Japan
- Bureau of Standards Metrology and Inspection (BSMI) - Taiwan
- Korea Communications Commission (KCC) - Republic of Korea
- Italian Post Ministry (Homologation) - Italy

## FCC Class A Notice

**This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:**

1. This device may not cause harmful interference, and
2. This device must accept any interference received, including interference that may cause undesired operation.

### NOTE:

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

## FCC Class B Notice

**This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:**

1. This device may not cause harmful interference, and
2. This device must accept any interference received, including interference that may cause undesired operation.

### NOTE:

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

## User Information

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. If necessary, consult with your dealer or an experienced radio/television technician for additional suggestions. You may find the booklet called How to Identify and Resolve Radio/TV Interference Problems helpful. This booklet was prepared by the Federal Communications Commission. It is available from the U.S. Government Printing Office, Washington, DC 20402, Stock Number 004-000-00345-4.

## The party responsible for product compliance:

SAMSUNG ELECTRONICS CO., LTD.  
America QA Lab of Samsung  
3351 Michelson Drive  
Suite #290, Irvine, CA92612 USA

## Warning

User must use shielded signal interface cables to maintain FCC compliance for the product. Provided with this monitor is a detachable power supply cord with IEC320 style terminations. It may be suitable for connection to any UL Listed personal computer with similar configuration. Before making the connection, make sure the voltage rating of the computer convenience outlet is the same as the monitor and that the ampere rating of the computer convenience outlet is equal or exceeds the monitor voltage rating. For 120 Volt applications, use only UL Listed detachable power cord with NEMA configuration 5-15P type (parallel blades) plug cap. For 240 Volt applications use only UL Listed detachable power supply cord with NEMA configuration 6-15P type (tandem blades) plug cap. This television receiver provides display of television closed captioning in accordance with Section 15.119 of the FCC rules. (TV broadcast receivers with picture screens 13 inches or larger in diameter models only)

## Important Safety Instructions (UL Only)



- 1) Read these instructions.
- 2) Keep these instructions.
- 3) Heed all warnings.
- 4) Follow all instructions.
- 5) Do not use this apparatus near water.
- 6) Clean only with dry cloth.
- 7) Do not block any ventilation openings, Install in accordance with the manufacturer's instructions.
- 8) Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- 9) Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
- 10) Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
- 11) Only use attachments/accessories specified by the manufacturer.
- 12) Use only with cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
- 13) Unplug this apparatus during lightning storms or when unused for long periods of time.
- 14) Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

**WARNING: To prevent damage which may result in fire or electric shock hazard, do not expose this appliance to rain or moisture.**

### • Ventilation

Do not place the apparatus in a rack or bookcase. Ensure that there is adequate ventilation and that you've followed that manufacturer's instructions for mounting and installation.

### • ENERGYSTAR qualified model only

- Your Samsung TV is ENERGYSTAR qualified in its factory default settings. Change to certain features, settings and functionality in this TV can change the power consumption, possibly beyond the limits required for ENERGYSTAR qualification.
- As an ENERGY STAR Partner, Samsung has determined that this product or product models meets the ENERGY STAR guidelines for energy efficiency.



### ICES-003 Class A Notice - Avis NMB-003, Classe A

This Class A digital apparatus complies with Canadian ICES-003.  
Cet appareil numérique de la classe A est conforme à la norme NMB-003 du Canada.

### ICES-003 Class B Notice - Avis NMB-003, Classe B

This Class B digital apparatus complies with Canadian ICES-003.  
Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

### VCCI Class A Notice

この装置は、情報処理装置等電波障害自主規制協議(VCCI)の基準に基づくクラスA情報技術装置です。この装置を家庭環境で使用すると電波妨害を引き起こすことがあります。この場合には使用者が適切な対策を講ずるよう要求されることがあります。

### VCCI Class B Notice

この装置は、情報処理装置等電波障害自主規制協議(VCCI)の基準に基づくクラスB情報技術装置です。この装置は、家庭環境で使用することを目的としていますが、この装置がラジオやテレビジョン受信機に近接して使用されると、受信障害を引き起こすことがあります。取扱説明書に従って正しい取り扱いをして下さい。

### CCC Class A notice - China

此为A级产品，在生活环境，该产品可能会造成无线电干扰。在这种情况下，可能需要用户对其干扰采取切实可行的措施。

### BSMI Class A Notice

The following statement is applicable to products shipped to Taiwan and marked as Class A on the product compliance label.

### 警告使用者：

這是甲類資訊類產品，在居住環境中使用時，可能會造成射頻干擾，在這種情況下，使用者會被要求採取某些適當的對策。



### European Notice(Europe Only)

Products with the CE marking comply with the EMC Directive(2004/108/EC) and the Low Voltage Directive(2006/95/EC) issued by the Commission of the European Community.

Compliance with these directives implies conformity to the following European Norms:

- EN55022: Radio Frequency Interference
- EN55024: Electromagnetic Immunity of Information Technology Equipment
- EN61000-3-2: Power Line Harmonics
- EN61000-3-3: Voltage Fluctuations
- EN55013: Radio disturbance characteristics of broadcast receivers and associated equipments
- EN55020: Electromagnetic immunity of broadcast receivers and associated equipments

### European Class A Warning

(If the user manual declares the product as Class A, following statement applies.)

This is a class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

### 업무용 방송통신기기 A급기기 (KCC Class A Notice)

이 기기는 업무용(A급)으로 전자파적합등록을 한 기기이오니 판매자 또는 사용자는 이 점을 주의하시기 바라며, 가정외의 지역에서 사용하는 것을 목적으로 합니다.

### 가정용 방송통신기기 B급기기 (KCC Class B Notice)

이 기기는 가정용(B급)으로 전자파적합등록을 한 기기로서 주로 가정에서 사용하는 것을 목적으로 하며, 모든 지역에서 사용할 수 있습니다.

### Italian Homologation Notice

Questo apparecchio e fabbricato in conformita al D.M.28.08.95 n.548

ed in particolare a quanto specificato nell Art.2, comma 1.

Questo apparecchio e fabbricato nella U.E. in conformita al D.M.28.08.95 n.548

Art.2, comma 1 ed al D.M.26.03.92 Art.1

- For products produced in countries except European Community

Questo apparecchio e fabbricato in conformita al D.M.28.08.95 n.548

ed in particolare a quanto specificato nell Art.2, comma 1.

- For products produced in European Community

Questo apparecchio e fabbricato nella U.E. in conformita al D.M.28.08.95 n.548

Art.2, comma 1 ed al D.M.26.03.92 Art.1

### Mercury Statement (USA only)

Contains Mercury, Dispose According to Local, State or Federal Laws





AA68-03242L-07

# SAMSUNG BRAND PRODUCTS

## LIMITED WARRANTY TO ORIGINAL PURCHASER

This SAMSUNG brand product, as supplied and distributed by SAMSUNG and delivered new, in the original carton to the original consumer purchaser, is warranted by SAMSUNG against manufacturing defects in materials and workmanship for a limited warranty period of: **(90 Days Parts and Labor for Commercial Use)**

Categories	Parts	Labor	Size	Service
LCD/LED TV	1 Year	1 Year	40" and Larger	Carry-In or In Home
			37" and Smaller	Carry-In
Plasma Display	1 Year	1 Year	All	Carry-In or In Home
Projector (Excluding Lamp **)	2 Year	2 Year	All	Carry-In or Pick up
PICO & LED Pocket Projector	1 Year	1 Year	All	Carry-In or Pick up

**\*\* 180 Days after Purchasing and 600 Hours of Use Lamp on Projector**

This limited warranty begins on the original date of purchase, and is valid only on products purchased and used in the United States. To receive warranty service, the purchaser must contact SAMSUNG for problem determination and service procedures. Warranty service can only be performed by a SAMSUNG authorized service center. The original dated bill of sale must be presented upon request as proof of purchase to SAMSUNG or SAMSUNG's authorized service center.

SAMSUNG will repair or replace this product, at our option and at no charge as stipulated herein, with new or reconditioned parts or products if found to be defective during the limited warranty period specified above. All replaced parts and products become the property of SAMSUNG and must be returned to SAMSUNG. Replacement parts and products assume the remaining original warranty, or ninety (90) days, whichever is longer.

Certain products are eligible for In-home service at Samsung's discretion. To receive in-home service, the product must be unobstructed and accessible to service personnel. If during in-home service repair can not be completed, it may be necessary to remove, repair and return the product. If in-home service is unavailable, SAMSUNG may elect, at our option, to provide for transportation of our choice to and from a SAMSUNG authorized service center. Otherwise, and for 37" and smaller LCD/LED TV, transportation to and from the SAMSUNG authorized service center is the responsibility of the purchaser.

This limited warranty covers manufacturing defects in materials and workmanship encountered in normal, and except to the extent otherwise expressly provided for in this statement, noncommercial use of this product, and shall not apply to the following, including, but not limited to: damage which occurs in shipment; delivery and installation; applications and uses for which this product was not intended; altered product or serial numbers; cosmetic damage or exterior finish; accidents, abuse, neglect, fire, water, lightning or other acts of nature; use of products, equipment, systems, utilities, services, parts, supplies, accessories, applications, installations, repairs, external wiring or connectors not supplied or authorized by SAMSUNG which damage this product or result in service problems; incorrect electrical line voltage, fluctuations and surges; customer adjustments and failure to follow operating instructions, cleaning, maintenance and environmental instructions that are covered and prescribed in the instruction book; reception problems and distortion related to noise, echo, interference or other signal transmission and delivery problems; brightness related to normal aging, or burned-in images. SAMSUNG does not warrant uninterrupted or error-free operation of the product.

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**1-800-SAMSUNG (7267864) – [www.samsung.com](http://www.samsung.com)**  
**1-800-749-0260 : Only Projector**

## **IMPORTANT WARRANTY INFORMATION REGARDING TELEVISION FORMAT VIEWING**

**Standard screen format televisions (4:3, the aspect ratio of the screen width to height) are primarily designed to view standard format full-motion video.** The images displayed on them should primarily be in the standard 4:3 ratio format and constantly moving. Displaying stationary graphics and images on screen, such as the dark top and bottom letterbox bars (wide screen pictures), should be limited to no more than 15% of the total television viewing per week.

**Wide screen format televisions (16:9, the aspect ratio of the screen width to height) are primarily designed to view wide screen format full-motion video.** The images displayed on them should primarily be in the wide screen 16:9 ratio format, or expanded to fill the screen if your model offers this feature, and constantly moving. Displaying stationary graphics and images on screen, such as the dark side-bars on non-expanded standard format television video and programming, should be limited to no more than 15% of the total television viewing per week.

Additionally, viewing other stationary images and text such as stock market reports, video game displays, station logos, web sites or computer graphics and patterns, should be limited as described above for all televisions. Displaying any stationary images that exceed the above guidelines can cause uneven aging of Plasma Display Panels that leave subtle, but permanent burned-in ghost images in the television picture. To avoid this, vary the programming and images, and primarily display full screen moving images, not stationary patterns or dark bars. On television models that offer picture sizing features, use these controls to view the different formats as a full screen picture.

**Be careful in the selection and duration of television formats used for viewing. Uneven Plasma Display Panels aging as a result of format selection and use, as well as other burned-in images, is not covered by your Samsung limited warranty.**



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